INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr. Governor

Thomas W. Easterly Commissioner

100 North Senate Avenue Indianapolis, Indiana 46204 (317) 232-8603 Toll Free (800) 451-6027 www.idem.lN.gov

NOTICE OF 30-DAY PERIOD FOR PUBLIC COMMENT

Preliminary Findings Regarding the Renewal of a Minor Source Operating Permit (MSOP)

for SCHOTT Gemtron Corporation in Knox County

Permit No. 083-30150-00012

The Indiana Department of Environmental Management (IDEM) has received an application from SCHOTT Gemtron Corporation located at 2000 Chestnut Street, Vincennes, Indiana for a renewal of their MSOP issued on September 19, 2006. If approved by IDEM's Office of Air Quality (OAQ), this proposed renewal would allow SCHOTT Gemtron Corporation to continue to operate their existing source.

This draft MSOP does not contain any new equipment that would emit air pollutants; however, some conditions from previously issued permits/approvals have been corrected, changed or removed. This notice fulfills the public notice procedures to which those conditions are subject. IDEM has reviewed this application, and has developed preliminary findings, consisting of a draft permit and several supporting documents, that would allow for these changes.

A copy of the permit application and IDEM's preliminary findings are available at:

Knox County Library 502 North 7th Street Vincennes, IN 47591

and

IDEM Southwest Regional Office 1120 N. Vincennes Avenue Petersburg, Indiana 47567-0128

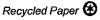
IDEM Southeast Regional Office 820 West Sweet Street Brownstown, Indiana 47220-9557

A copy of the preliminary findings is available on the Internet at: http://www.in.gov/ai/appfiles/idem-caats/.

How can you participate in this process?

The date that this notice is published in a newspaper marks the beginning of a 30-day public comment period. If the 30th day of the comment period falls on a day when IDEM offices are closed for business, all comments must be postmarked or delivered in person on the next business day that IDEM is open.

You may request that IDEM hold a public hearing about this draft permit. If adverse comments concerning the air pollution impact of this draft permit are received, with a request for a public hearing, IDEM will decide whether or not to hold a public hearing. IDEM could also decide to hold a public meeting instead of, or in addition to, a public hearing. If a public hearing or meeting is held. IDEM will make a separate announcement of the date, time, and location of that hearing or meeting. At a hearing,



you would have an opportunity to submit written comments and make verbal comments. At a meeting, you would have an opportunity to submit written comments, ask questions, and discuss any air pollution concerns with IDEM staff.

Comments and supporting documentation, or a request for a public hearing should be sent in writing to IDEM at the address below. If you comment via e-mail, please include your full U.S. mailing address so that you can be added to IDEM's mailing list to receive notice of future action related to this permit. If you do not want to comment at this time, but would like to receive notice of future action related to this permit application, please contact IDEM at the address below. Please refer to permit number 083-30150-00012 in all correspondence.

Comments should be sent to:

Janet Mobley
IDEM, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
(800) 451-6027, ask for extension (4-5373)
Or dial directly: (317) 234-5373

E-mail: imobley@idem.in.gov

All comments will be considered by IDEM when we make a decision to issue or deny the permit. Comments that are most likely to affect final permit decisions are those based on the rules and laws governing this permitting process (326 IAC 2), air quality issues, and technical issues. IDEM does not have legal authority to regulate zoning, odor or noise. For such issues, please contact your local officials.

For additional information about air permits and how you can participate, please see IDEM's **Guide for Citizen Participation** and **Permit Guide** on the Internet at: www.idem.in.gov.

What will happen after IDEM makes a decision?

Following the end of the public comment period, IDEM will issue a Notice of Decision stating whether the permit has been issued or denied. If the permit is issued, it may be different than the draft permit because of comments that were received during the public comment period. If comments are received during the public notice period, the final decision will include a document that summarizes the comments and IDEM's response to those comments. If you have submitted comments or have asked to be added to the mailing list, you will receive a Notice of the Decision. The notice will provide details on how you may appeal IDEM's decision, if you disagree with that decision. The final decision will also be available on the Internet at the address indicated above, at the local library indicated above, and the IDEM public file room on the 12th floor of the Indiana Government Center North, 100 N. Senate Avenue, Indianapolis, Indiana 46204-2251, IDEM Southwest Regional Office, 1120 N. Vincennes Avenue, Petersburg, Indiana 47567-0128 and IDEM Southeast Regional Office, 820 West Sweet Street, Brownstown, Indiana 47220-9557.

If you have any questions please contact Janet Mobley of my staff at the above address.

Iryh Calilung, Section Chief

Permits Branch

Office of Air Quality



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Minor Source Operating Permit Renewal OFFICE OF AIR QUALITY

SCHOTT Gemtron Corporation 2000 Chestnut Street Vincennes, Indiana 47591

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a MSOP under 326 IAC 2-6.1.

Operation Permit No.: M083-30150-00012					
Issued by:	Issuance Date:				
Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Expiration Date:				





TABLE OF CONTENTS

A. SO	URCE SUMMARY	4
A.1 A.2	General Information [326 IAC 2-5.1-3(c)][326 IAC 2-6.1-4(a)] Emission Units and Pollution Control Equipment Summary	
A.Z	Emission onlis and Foliution Control Equipment Summary	
B. GE B.1	NERAL CONDITIONSDefinitions [326 IAC 2-1.1-1]	9
B.2	Permit Term [326 IAC 2-1.1-1] Permit Term [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]	
B.3	Term of Conditions [326 IAC 2-1.1-9.5]	
B.4 B.5	Enforceability Severability	
B.6	Property Rights or Exclusive Privilege	
B.7 B.8	Duty to Provide Information Annual Notification [326 IAC 2-6.1-5(a)(5)]	
B.9	Preventive Maintenance Plan [326 IAC 1-6-3]	
B.10	Prior Permits Superseded [326 IAC 2-1.1-9.5] Termination of Right to Operate [326 IAC 2-6.1.7(a)]	
B.11 B.12	Termination of Right to Operate [326 IAC 2-6.1-7(a)] Permit Renewal [326 IAC 2-6.1-7]	
B.13	Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]	
B.14 B.15	Source Modification Requirement Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)][326 IAC 2-6.1-5(a)(4)][IC 13-14-2-2]	
	[IC 13-17-3-2][IC 13-30-3-1]	
B.16 B.17	Transfer of Ownership or Operational Control [326 IAC 2-6.1-6] Annual Fee Payment [326 IAC 2-1.1-7]	
B.18	Credible Evidence [326 IAC 1-1-6]	
c. so	URCE OPERATION CONDITIONS	14
Fmi	ssion Limitations and Standards [326 IAC 2-6.1-5(a)(1)]	
C.1	Particulate Emission Limitations For Processes with Process Weight Rates	
C.2	Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]	
C.2	Permit Revocation [326 IAC 2-1.1-9] Opacity [326 IAC 5-1]	
C.4	Open Burning [326 IAC 4-1] [IC 13-17-9]	
C.5 C.6	Incineration [326 IAC 4-2] [326 IAC 9-1-2] Fugitive Dust Emissions [326 IAC 6-4]	
C.7	Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]	
Tes	ting Requirements [326 IAC 2-6.1-5(a)(2)]	
C.8	Performance Testing [326 IAC 3-6]	
Con	npliance Requirements [326 IAC 2-1.1-11]	
C.9	Compliance Requirements [326 IAC 2-1.1-11]	
	npliance Monitoring Requirements [326 IAC 2-6.1-5(a)(2)]	
C.10 C.11	Compliance Monitoring [326 IAC 2-1.1-11] Instrument Specifications [326 IAC 2-1.1-11]	
Cor		
C.12	rective Actions and Response Steps Response to Excursions or Exceedances	

DRAFT

Page 3 of 30 M083-30150-00012

	ord Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]
C.14	Malfunctions Report [326 IAC 1-6-2]
C.15	General Record Keeping Requirements [326 IAC 2-6.1-5]
C.16	General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]
	Dissions Unit Operation Conditions
E.1. FA	CILITY OPERATION CONDITIONS25
	nal Emissions Standards for Hazardous Air Pollutants (NESHAP) Requirements: Stationary procating Internal Combustion Engines
E.1.1	General Provisions Relating to National Emissions Standards for Hazardous Air Pollutants under 40 CFR 63 [326-IAC20-1][40 CFR Part 63, Subpart A]
E.1.2	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines [40 CFR Part 63, Subpart ZZZZ]
	Notification

Attachment A: National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines [40 CFR Part 63, Subpart ZZZZ]

Permit Reviewer: Janet Mobley

DRAFT

Page 4 of 30 M083-30150-00012

SECTION A

SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 and A.2 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-5.1-3(c)][326 IAC 2-6.1-4(a)]

The Permittee owns and operates a stationary glass products tempering source.

Source Address: 2000 Chestnut Street, Vincennes, Indiana 47591

General Source Phone Number: 812-882-2680

SIC Code: 3231 County Location: Knox

Source Location Status: Attainment for all criteria pollutants
Source Status: Minor Source Operating Permit Program

Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act

Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary

This stationary source consists of the following emission units and pollution control devices:

- (a) One (1) Glass Tech Processing Operation, including the following equipment:
 - (1) One (1) glass tech electric tempering furnace, identified as EU-01, installed in 1991, capacity: 8,000 pounds of glass per hour total, exhausting to stack SO₂-01.

(Seven lines, identified as HT-0, HT-1, HT-2, HT-5, HT-6 and HT-7 and F-8 run into this furnace but only 4 lines can run at one time).

The glass tech processing operation consists of the furnace, air quenching and six lines. F-8 is part of EU-16.

- (2) One (1) air quenching operation.
- (3) Line 0, identified as HT-0, including the following equipment:
 - (A) one (1) silk screening machine, identified as machine 0, capacity: 1.35 pounds of paint per hour.
 - (B) two (2) glass edging units, which is a wet glass operation.
 - (C) One (1) slitting unit, with negligible emissions.
 - (D) Two (2) small washer units.
 - (E) One (1) nubber operation, which is a wet glass edging operation.
- (4) Line 1, identified as HT-1, including the following equipment:

SCHOTT Gemtron Corporation Vincennes, Indiana Permit Reviewer: Janet Mobley

- (A) one (1) silk screening machine, identified as machine 1. capacity: 1.35 pounds of paint per hour.
- (B) two (2) glass edging units, which is a wet glass operation.
- (C) One (1) slitting unit, with negligible emissions.
- (D) Two (2) small washer units.
- (E) One (1) nubber operation, which is a wet glass edging operation.
- (5) Line 2, identified as HT-2, including the following equipment:
 - (A) one (1) silk screening machine, identified as machine 2. capacity: 1.35 pounds of paint per hour.
 - (B) two (2) glass edging units, which is a wet glass operation.
 - (C) One (1) slitting unit, with negligible emissions.
 - (D) Two (2) small washer units.
 - (E) One (1) nubber operation, which is a wet glass edging operation.
- (6) Line 5, identified as HT-5, including the following equipment:
 - (A) one (1) silk screening machine, identified as machine 5. capacity: 0.81 pounds of paint per hour.
 - (B) two (2) glass edging units, which is a wet glass operation.
 - (C) One (1) slitting unit, with negligible emissions.
 - (D) Two (2) small washer units.
 - (E) One (1) nubber operation, which is a wet glass edging operation.
- (7) Line 6, identified as HT-6, including the following equipment:
 - (A) One (1) silk screening machine, identified as machine 6. capacity: 2.45 pounds of paint per hour.
 - (B) Two (2) glass edging units, which is a wet glass operation.
 - (C) One (1) slitting unit, with negligible emissions.
 - (D) Two (2) small washer units.
 - (E) One (1) nubber operation, which is a wet glass edging operation.
- (8) Line 7, identified as HT-7, including the following equipment:
 - (A) One (1) silk screening machine, identified as machine 7. capacity: 2.45 pounds of paint per hour.

Page 6 of 30 M083-30150-00012

- (B) Two (2) glass edging units, which is a wet glass operation.
- (C) One (1) slitting unit, with negligible emissions.
- (D) One (1) washer unit.
- (E) One (1) stripcutter unit, used to cut the glass, with negligible emissions.
- (F) One (1) nubber operation, which is a wet glass edging operation.
- (b) One (1) Rhonehouse 42 electric drying oven.

(This oven is not currently in operation and source does not have plans to operate the unit, if it is hooked up it would be a considered as a furnace).

- (c) One (1) CERAN processing line, identified as EU-03, installed in 1993, exhausting to stacks CO-1B through CO-9B and stacks C0-1C through C0-5C, capacity: 4.193 pounds of glass per hour, including the following equipment:
 - (1) Three (3) silk screening machines, identified as machine 1, machine 2 and machine 3, capacity: 2.50 pounds of paint per hour, each.
 - (2) Three (3) electric tempering furnaces.
 - (3) Three (3) cooling conveyors.
 - (4) One (1) laser cutter, identified as CERAN Laser, equipped with a baghouse for particulate control, identified as EU-LAS, exhausting to stack EU-LAS, capacity: 600 pounds of glass per hour.
- (d) One (1) spray cleaning operation, identified as EU-04, installed in 1991, equipped with solids filters, exhausting to stack XY-1C, capacity: 1.5 gallons of solvent per hour, consisting of the following equipment:
 - (1) One (1) wash booth #1 used for air grinding.
 - (2) One (1) wash booth #2 used for silk screen and paint removal, capacity: 5.49 pounds of solvent per hour.
 - (3) One (1) automatic screen washer, with a capacity of 55 gallons of solvent, and a solvent usage rate of 0.0445 gallons per hour.
- (e) Twenty-three (23) injection molding machines, identified as EU-05, which includes sixteen (16) plastic injection molding machines, installed in 1995, capacity: 32.15 pounds of polypropylene per hour, each and six (6) injection molding machines, installed in 2007, capacity: 27.7 pounds of polypropylene per hour, each, and one (1) injection molding machine, installed in 2011, capacity 27.7 pounds of polypropylene per hour.
- (f) Two (2) diesel fired emergency generators, identified as EU-06, installed in 1998, exhausted to stacks EP-1C and EP-2C, rated at 0.5 million British thermal units per hour, total, operating at 500 hours per year or less, each.
- (g) Forty-nine (49) building work natural gas-fired space heaters, identified as EU-07, installed in 1998, rated at 4.785 million British thermal units per hour, total.

- (h) Maintenance welding operations, identified as EU-08, consisting of the following:
 - (1) Eight (8) Metal Inert Gas (MIG) welding stations, capacity: 0.05 pounds of wire per hour, each.
 - (2) Four (4) Stick welding stations, capacity: 0.20 pounds of wire per hour, each.
 - (3) Two (2) Tungsten Inert Gas (TIG) welding stations, capacity: 0.10 pounds of wire per hour, each.
- (i) One maintenance metal grinding operation, identified as EU-09, installed prior to 2001, with a potential to emit PM of 0.06 tons per year.
- (j) One (1) glass edge grinding operation, identified as EU-10, installed in 1991, equipped with a particulate fiber filter for PM control, exhausting to Stack WR-01, and relocated within the source in 2002, capacity: 0.274 pounds of glass per hour.
- (k) One (1) CERAN strip wash operation, identified as EU-12, installed in 1995, exhausting to stack WV-1D, capacity: 60 glass panels per hour.
- (I) One (1) circle glass line (F-8), identified as EU-16, installed in 2003, exhausting to stack H-02, capacity: 488 pounds of glass per hour, including the following equipment:
 - (1) One (1) edging unit, which is a wet glass operation.
 - (2) One (1) washer unit.
 - (3) One (1) whopper machine, used to cut circles in the glass, with negligible emissions.
- (m) One (1) small parts line (F-9), identified as EU-17, installed in 2003, exhausting to stacks W-01 or H-02, capacity: 425 pounds of glass per hour, including the following equipment:
 - (1) One (1) circle cutter, with negligible emissions.
 - (2) Four (4) belt sanders.
- (n) One (1) CERAN furnace line, identified as EU-18, exhausting to stacks #1 through #3, installed in 2004, capacity: 1,398 pounds of glass per hour, including the following equipment:
 - (1) One (1) electric tempering furnace.
 - (2) One (1) cooling conveyor.
- (o) One (1) maintenance degreaser, identified as EU-19, installed prior to 2001, with a potential to emit VOC of 0.139 tons per year.
- (p) One (1) transparent armor windshield potting operation, identified as EU-20, constructed in 2009, applying adhesive with a caulk gun, with a maximum capacity of 2.5 kits per hour, and exhausting to the indoors.
- (q) One (1) transparent armor windshield potting operation, identified as EU-21, approved for construction in 2011, applying adhesive with a caulk gun, with a maximum capacity of 2.5 kits per hour, and exhausting to the indoors.

- (r) Four (4) natural gas-fired space heaters, identified as SH1, installed prior to 2001, exhausting to stacks GF-1D, GF-2D, GF-3D and GF-1H, rated at 0.45 million British thermal units per hour, total.
- (s) Four (4) refrigerator heat stamping machines, including one (1) refrigerator shelf stamping decal removal area, identified as HSM, installed prior to 2004, capacity: 110 gallons of Ethyl Acetate per year.
- (t) One (1) Intermac, including:
 - (1) two (2) edging units, which is a wet glass operation.
- (u) One (1) Bevelar, including:
 - (1) two (2) vertical edger units, which is a wet glass operation.



SECTION B

GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-1.1-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-1.1-1) shall prevail.

B.2 Permit Term [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

- (a) This permit, M083-30150-00012, is issued for a fixed term of ten (10) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

B.3 Term of Conditions [326 IAC 2-1.1-9.5]

Notwithstanding the permit term of a permit to construct, a permit to operate, or a permit modification, any condition established in a permit issued pursuant to a permitting program approved in the state implementation plan shall remain in effect until:

- (a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or
- (b) the emission unit to which the condition pertains permanently ceases operation.

B.4 Enforceability

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

B.5 Severability

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.6 Property Rights or Exclusive Privilege

This permit does not convey any property rights of any sort or any exclusive privilege.

B.7 Duty to Provide Information

- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

SCHOTT Gemtron Corporation Vincennes, Indiana Permit Reviewer: Janet Mobley Page 10 of 30 M083-30150-00012

B.8 Annual Notification [326 IAC 2-6.1-5(a)(5)]

- (a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.
- (b) The annual notice shall be submitted in the format attached no later than March 1 of each year to:

Indiana Department of Environmental Management Compliance and Enforcement Branch, Office of Air Quality 100 North Senate Avenue MC 61-53 IGCN 1003 Indianapolis, Indiana 46204-2251

(c) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

B.9 Preventive Maintenance Plan [326 IAC 1-6-3]

- (a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:
 - Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

The Permittee shall implement the PMPs.

- (b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:
 - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management Compliance and Enforcement Branch, Office of Air Quality



100 North Senate Avenue MC 61-53 IGCN 1003 Indianapolis, Indiana 46204-2251

The Permittee shall implement the PMPs.

- (c) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions.
- (d) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.10 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to M083-30150-00012 and issued pursuant to permitting programs approved into the state implementation plan have been either:
 - (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

B.11 Termination of Right to Operate [326 IAC 2-6.1-7(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least one hundred twenty (120) days prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-6.1-7.

B.12 Permit Renewal [326 IAC 2-6.1-7]

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-6.1-7. Such information shall be included in the application for each emission unit at this source. The renewal application does require an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

- (b) A timely renewal application is one that is:
 - (1) Submitted at least one hundred twenty (120) days prior to the date of the expiration of this permit; and

SCHOTT Gemtron Corporation Vincennes, Indiana Permit Reviewer: Janet Mobley

- (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-6.1 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-6.1-4(b), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.13 Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management Permit Administration and Support Section, Office of Air Quality 100 North Senate Avenue MC 61-53 IGCN 1003 Indianapolis, Indiana 46204-2251

(c) The Permittee shall notify the OAQ no later than thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

B.14 Source Modification Requirement

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2.

B.15 Inspection and Entry

[326 IAC 2-5.1-3(e)(4)(B)][326 IAC 2-6.1-5(a)(4)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a permitted source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.16 Transfer of Ownership or Operational Control [326 IAC 2-6.1-6]

- (a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

The application which shall be submitted by the Permittee does require an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee may implement notice-only changes addressed in the request for a notice-only change immediately upon submittal of the request. [326 IAC 2-6.1-6(d)(3)]

B.17 Annual Fee Payment [326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees due no later than thirty (30) calendar days of receipt of a bill from IDEM, OAQ,.
- (b) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.18 Credible Evidence [326 IAC 1-1-6]

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

SECTION C

SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

C.2 Permit Revocation [326 IAC 2-1.1-9]

Pursuant to 326 IAC 2-1.1-9 (Revocation of Permits), this permit to operate may be revoked for any of the following causes:

- (a) Violation of any conditions of this permit.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.
- (c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.
- (d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.
- (e) For any cause which establishes in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of this article.

C.3 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-1 (Applicability) and 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.4 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

C.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

The Permittee shall not operate an incinerator except as provided in 326 IAC 4-2 or in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.

SCHOTT Gemtron Corporation Vincennes, Indiana Permit Reviewer: Janet Mobley

C.6 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

C.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
 - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management Compliance and Enforcement Branch, Office of Air Quality 100 North Senate Avenue MC 61-53 IGCN 1003 Indianapolis, Indiana 46204-2251

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project.

(e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in
326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control
requirements are applicable for any removal or disturbance of RACM greater than three
(3) linear feet on pipes or three (3) square feet on any other facility components or a total
of at least 0.75 cubic feet on all facility components.



- (f) Demolition and Renovation
 - The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) Indiana Licensed Asbestos Inspector The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

Testing Requirements [326 IAC 2-6.1-5(a)(2)]

C.8 Performance Testing [326 IAC 3-6]

(a) For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management Compliance and Enforcement Branch, Office of Air Quality 100 North Senate Avenue MC 61-53 IGCN 1003 Indianapolis, Indiana 46204-2251

no later than thirty-five (35) days prior to the intended test date.

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date.
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.9 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.



Compliance Monitoring Requirements [326 IAC 2-6.1-5(a)(2)]

C.10 Compliance Monitoring [326 IAC 2-1.1-11]

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. All monitoring and record keeping requirements not already legally required shall be implemented when operation begins.

C.11 Instrument Specifications [326 IAC 2-1.1-11]

- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.
- (b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

Corrective Actions and Response Steps

C.12 Response to Excursions or Exceedances

Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation in this permit:

- (a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:
 - (1) initial inspection and evaluation;
 - recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system); or
 - (3) any necessary follow-up actions to return operation to normal or usual manner of operation.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
 - (1) monitoring results;
 - (2) review of operation and maintenance procedures and records; and/or
 - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.

Page 18 of 30 M083-30150-00012

(e) The Permittee shall record the reasonable response steps taken.

C.13 Actions Related to Noncompliance Demonstrated by a Stack Test

- (a) When the results of a stack test performed in conformance with Section C Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

C.14 Malfunctions Report [326 IAC 1-6-2]

Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

- (a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.
- (b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.
- (c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).
- (d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

C.15 General Record Keeping Requirements [326 IAC 2-6.1-5]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of

Page 19 of 30 M083-30150-00012

permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

C.16 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

(a) Reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management Compliance and Enforcement Branch, Office of Air Quality 100 North Senate Avenue MC 61-53 IGCN 1003 Indianapolis, Indiana 46204-2251

- (b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

SECTION D.1

EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Glass Tech Processing Operation

- (a) One (1) Glass Tech Processing Operation, including the following equipment:
 - (1) One (1) glass tech electric tempering furnace, identified as EU-01, installed in 1991, capacity: 8,000 pounds of glass per hour total, exhausting to stack SO2-01.

(Seven lines, identified as HT-1, HT-1, HT-2, HT-5, HT-6, HT-7 and F-8 run into this furnace but only 4 lines can run at one time).

The glass tech processing operation consists of the furnace, air quenching and six lines. F-8 is part of EU-16.

- (2) One (1) air quenching operation.
- (3) Line 0, identified as HT-0, including the following equipment:
 - (A) one (1) silk screening machine, identified as machine 0, capacity: 1.35 pounds of paint per hour.
 - (B) two (2) glass edging units, which is a wet glass operation.
 - (C) One (1) slitting unit, with negligible emissions.
 - (D) Two (2) small washer units.
 - (E) One (1) nubber operation, which is a wet glass edging operation.
- (4) Line 1, identified as HT-1, including the following equipment:
 - (A) one (1) silk screening machine, identified as machine 1, capacity: 1.35 pounds of paint per hour.
 - (B) two (2) glass edging units, which is a wet glass operation.
 - (C) One (1) slitting unit, with negligible emissions.
 - (D) Two (2) small washer units.
 - (E) One (1) nubber operation, which is a wet glass edging operation.
- (5) Line 2, identified as HT-2, including the following equipment:
 - (A) one (1) silk screening machine, identified as machine 2, capacity: 1.35 pounds of paint per hour.
 - (B) two (2) glass edging units, which is a wet glass operation.
 - (C) One (1) slitting unit, with negligible emissions.
 - (D) Two (2) small washer units.
 - (E) One (1) nubber operation, which is a wet glass edging operation.

- (6) Line 5, identified as HT-5, including the following equipment:
 - (A) one (1) silk screening machine, identified as machine 5, capacity: 1.35 pounds of paint per hour.
 - (B) two (2) glass edging units, which is a wet glass operation.
 - (C) One (1) slitting unit, with negligible emissions.
 - (D) Two (2) small washer units.
 - (E) One (1) nubber operation, which is a wet glass edging operation.
- (7) Line 6, identified as HT-6, including the following equipment:
 - (A) one (1) silk screening machine, identified as machine 6, capacity: 1.35 pounds of paint per hour.
 - (B) two (2) glass edging units, which is a wet glass operation.
 - (C) One (1) slitting unit, with negligible emissions.
 - (D) Two (2) small washer units.
 - (E) One (1) nubber operation, which is a wet glass edging operation.
- (8) Line 7, identified as HT-7, including the following equipment:
 - (A) one (1) silk screening machine, identified as machine 0, capacity: 1.35 pounds of paint per hour.
 - (B) two (2) glass edging units, which is a wet glass operation.
 - (C) One (1) slitting unit, with negligible emissions.
 - (D) Two (2) small washer units.
 - (E) One (1) nubber operation, which is a wet glass edging operation.
- (b) One (1) Rhonehouse 42 electric drying oven.

 (This oven is not currently in operation and source do

(This oven is not currently in operation and source does not have plans to operate the unit, it is hooked up it would be considered as a furnace).

- (c) One (1) CERAN processing line, identified as EU-03, installed in 1993, exhausting to stacks CO-1B through CO-9B and stacks C0-1C through C0-5C, capacity: 4.193 pounds of glass per hour, including the following equipment:
 - (1) Three (3) silk screening machines, identified as machine 1, machine 2 and machine 3, capacity: 2.50 pounds of paint per hour, each.
 - (2) Three (3) electric tempering furnaces.
 - (3) Three (3) cooling conveyors.



- (4) One (1) laser cutter, identified as CERAN Laser, equipped with a baghouse for particulate control, identified as EU-LAS, exhausting to stack EU-LAS, capacity: 600 pounds of glass per hour.
- (d) One (1) spray cleaning operation, identified as EU-04, installed in 1991, equipped with solids filters, exhausting to stack XY-1C, capacity: 1.5 gallons of solvent per hour, consisting of the following equipment:
 - (1) One (1) wash booth #1 used for air grinding.
 - One (1) wash booth #2 used for silk screen and paint removal, capacity: 5.49 pounds of solvent per hour.
 - One (1) automatic screen washer, with a capacity of 55 gallons of solvent, and a solvent usage rate of 0.0445 gallons per hour.
- (e) Twenty-three (23) injection molding machines, identified as EU-05, which includes sixteen (16) plastic injection molding machines, installed in 1995, capacity: 32.15 pounds of polypropylene per hour, each and six (6) injection molding machines, installed in 2007, capacity: 27.7 pounds of polypropylene per hour, each, and one (1) injection molding machine, installed in 2011, capacity 27.7 pounds of polypropylene per hour.
- (f) Two (2) diesel fired emergency generators, identified as EU-06, installed in 1998, exhausted to stacks EP-1C and EP-2C, rated at 0.5 million British thermal units per hour, total, operating at 500 hours per year or less, each.
- (g) Forty-nine (49) building work natural gas-fired space heaters, identified as EU-07, installed in 1998, rated at 4.785 million British thermal units per hour, total.
- (h) Maintenance welding operations, identified as EU-08, consisting of the following:
 - (1) Eight (8) Metal Inert Gas (MIG) welding stations, capacity: 0.05 pounds of wire per hour, each.
 - (2) Four (4) Stick welding stations, capacity: 0.20 pounds of wire per hour, each.
 - (3) Two (2) Tungsten Inert Gas (TIG) welding stations, capacity: 0.10 pounds of wire per hour, each.
- (i) One maintenance metal grinding operation, identified as EU-09, installed prior to 2001, with a potential to emit PM of 0.06 tons per year.
- (j) One (1) glass edge grinding operation, identified as EU-10, installed in 1991, equipped with a particulate fiber filter for PM control, exhausted to Stack WR-01, and relocated within the source in 2002, capacity: 0.274 pounds of glass per hour.
- (k) One (1) CERAN strip wash operation, identified as EU-12, installed in 1995, exhausting to stack WV-1D, capacity: 60 glass panels per hour.
- (I) One (1) circle glass line (F-8), identified as EU-16, installed in 2003, exhausting to stack H-02, capacity: 488 pounds of glass per hour, including the following equipment:
 - (1) One (1) edging unit, which is a wet glass operation.
 - (2) One (1) washer unit.

- (3) One (1) whopper machine, used to cut circles in the glass, with negligible emissions.
- (m) One (1) small parts line (F-9), identified as EU-17, installed in 2003, exhausting to stacks W-01 or H-02, capacity: 425 pounds of glass per hour, including the following equipment:
 - (1) One (1) circle cutter, with negligible emissions.
 - (2) Four (4) belt sanders.
- (n) One (1) CERAN new furnace line, identified as EU-18, exhausting to stacks #1 through #3, installed in 2004, capacity: 1,398 pounds of glass per hour, including the following equipment:
 - (1) One (1) electric tempering furnace.
 - (2) One (1) cooling conveyor.
- (o) One (1) maintenance degreaser, identified as EU-19, installed prior to 2001, with a potential to emit VOC of 0.139 tons per year.
- (p) One (1) transparent armor windshield potting operation, identified as EU-20, constructed in 2009, applying adhesive with a caulk gun, with a maximum capacity of 2.5 kits per hours, and exhausting to the indoors.
- (q) One (1) transparent armor windshield potting operation, identified as EU-21, approved for construction in 2011, applying adhesive with a caulk gun, with a maximum capacity of 2.5 kits per hours, and exhausting to the indoors.
- (r) Four (4) natural gas-fired space heaters, identified as SH1, installed prior to 2001, exhausted to stacks GF-1D, GF-2D, GF-3D and GF-1H, rated at 0.45 million British thermal units per hour, total.
- (s) Four (4) refrigerator heat stamping machines, including one (1) refrigerator shelf stamping decal removal area, identified as HSM, installed prior to 2004, capacity: 110 gallons of Ethyl Acetate per year.
- (t) One (1) Inetrmac, including:
 - (1) Two (2) edging units, which is a wet operation.
- (u) One (1) Bevelar, including:
 - (1) Two (2) vertical edging units, which is a wet operation.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards

D.1.1 Particulate [326 IAC 6-3-2]

(a) Pursuant to 326 IAC 6-3-2, the allowable particulate emission rate from the one (1) laser cutter identified as CERAN Laser, shall not exceed 1.83 pounds per hour when operating at a process weight rate of 600 pounds per hour (0.300 tons per hour).

- (b) Pursuant to 326 IAC 6-3-2, the allowable particulate emissions rate from the four (4) belt sanders, associated with EU-17, shall be limited to 1.45 pounds per hour, total, at a process weight rate of 425 pounds per hour (0.213 tons per hour).
- (c) Pursuant to 326 IAC 6-3-2, the allowable particulate emissions rate from the one (1) glass edge grinding operation, identified as EU-10, shall not exceed 0.722 pounds per hour when operating at a process weight rate of 150 pounds per hour (0.075 tons per hour).

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

 $E = 4.10 P^{0.67}$ where E =rate of emission in pounds per hour and P =process weight rate in tons per hour

D.1.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), for cold cleaning operations (EU-4, EU-12, and EU-19) for which construction commenced after January 1, 1980, the Permittee shall:

- (a) Equip the cleaner with a cover;
- (b) Equip the cleaner with a facility for draining cleaned parts;
- (c) Close the degreaser cover whenever parts are not being handled in the cleaner;
- (d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
- (e) Provide a permanent, conspicuous label summarizing the operation requirements;
- (f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

D.1.3 Volatile Organic Compounds (VOC) [326 IAC 8-3-5]

- (a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), the Permittee of a cold cleaner degreaser facility (EU-4, EU-12, and EU-19) for which construction commenced after July 1, 1990, shall ensure that the following control equipment requirements are met:
 - (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
 - (A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));
 - (B) The solvent is agitated; or
 - (C) The solvent is heated.
 - (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kilopascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at



thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)) then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.

- (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
- (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
- (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kilopascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nineteenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
 - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
 - (B) A water cover when solvent is used is insoluble in, and heavier than, water.
 - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller of carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the Permittee of a cold cleaning facility construction of which commenced after July 1, 1990, shall ensure that the following operating requirements are met:
 - (1) Close the cover whenever articles are not being handled in the degreaser.
 - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
 - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.



SECTION E.1

EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(k) Two (2) diesel fired emergency generators, identified as EU-06, installed in 1998, exhausted to stacks EP-1C and EP-2C, rated at 0.5 million British thermal units per hour, total, operating at 500 hours per year or less, each.

Under 40 CFR 63, Subpart ZZZZ, the two diesel fired emergency generators (EU-06) are affected facilities.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

National Emissions Standards for Hazardous Air Pollutants (NESHAP) Requirements: Stationary Reciprocating Internal Combustion Engines

- E.1.1 General Provisions Relating to National Emissions Standards for Hazardous Air Pollutants under 40 CFR Part 63 [326 IAC 20-1] [40 CFR Part 63, Subpart A]
 - (a) Pursuant to 40 CFR 63.340(b), the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A General Provisions, which are incorporated by reference as 326 IAC 20-82, for the reciprocating internal combustion engines as specified in Table 8 of 40 CFR Part 63, Subpart ZZZZ in accordance with the schedule in 40 CFR 63, Subpart ZZZZ.
 - (b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:

Indiana Department of Environmental Management Compliance and Enforcement Branch, Office of Air Quality 100 North Senate Avenue MC 61-53 IGCN 1003 Indianapolis, Indiana 46204-2251

E.1.2 National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines [40 CFR Part 63, Subpart ZZZZ]

The Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart ZZZZ (included as Attachment A) which are incorporated by reference as 326 IAC 20-82 for the reciprocating internal combustion engines:

- (1) 40 CFR 63.6580
- (2) 40 CFR 63.6585
- (3) 40 CFR 63.6590(a)(1)(iii)
- (4) 40 CFR 63.6595(a)(1), (b), and (c)
- (5) 40 CFR 63.6603
- (6) 40 CFR 63.6605
- (7) 40 CFR 63.6625(e)(3), (f), (h), and (i)
- (8) 40 CFR 63.6635
- (9) 40 CFR 63.6640
- (10) 40 CFR 63.6645(a)(5)
- (11) 40 CFR 63.6650
- (12) 40 CFR 63.6655
- (13) 40 CFR 63.6660
- (14) 40 CFR 63.6665
- (15) 40 CFR 63.6670

- 40 CFR 63.6675 Table 2d (item 4) Table 6 (item 9) Table 8 (16)(17) (18)
- (19)



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

OFFICE OF AIR QUALITY COMPLIANCE AND ENFORCEMENT BRANCH

MINOR SOURCE OPERATING PERMIT ANNUAL NOTIFICATION

This form should be used to comply with the notification requirements under 326 IAC 2-6.1-5(a)(5).

Company Name:	SCHOTT Gemtron Corporation					
John Parity Hamie.	Joinpany Name. Schott Gemiion Corporation					
Address:	2000 Chestnut Street					
City:	Vincennes, Indiana 47591					
Phone #:	812-882-2680					
MSOP #:	M083-30150-00012					
I hereby certify that SC	□ still in operation. □ no longer in operation.					
I nereby certify that SC	HOTT Gemtron Corporation is :	 □ in compliance with the requirements of MSOP M083-30150-00012. □ not in compliance with the requirements of MSOP M083-30150-00012. 				
Authorized Individua	al (typed):					
Title:						
Signature:						
Date:						
		source is not in compliance, provide a narrative ace and the date compliance was, or will be				
Noncompliance:						



MALFUNCTION REPORT

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE AND ENFORCEMENT BRANCH FAX NUMBER: (317) 233-6865

This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4. THIS FACILITY MEETS THE APPLICABILITY REQUIREMENTS BECAUSE IT HAS POTENTIAL TO EMIT 25 TONS/YEAR PARTICULATE MATTER?____, 25 TONS/YEAR SULFUR DIOXIDE?____, 25 TONS/YEAR NITROGEN OXIDES?____, 25 TONS/YEAR VOC?____, 25 TONS/YEAR HYDROGEN SULFIDE?____, 25 TONS/YEAR TOTAL REDUCED SULFUR ?____, 25 TONS/YEAR REDUCED SULFUR COMPOUNDS?____, 25 TONS/YEAR FLUORIDES?____, 100 TONS/YEAR CARBON MONOXIDE ?_____, 10 TONS/YEAR ANY SINGLE HAZARDOUS AIR POLLUTANT ?_____, 25 TONS/YEAR ANY COMBINATION HAZARDOUS AIR POLLUTANT ?_____, 1 TON/YEAR LEAD OR LEAD COMPOUNDS MEASURED AS ELEMENTAL LEAD ?_____, OR IS A SOURCE LISTED UNDER 326 IAC 2-5.1-3(2) ?_____. EMISSIONS FROM MALFUNCTIONING CONTROL EQUIPMENT OR PROCESS EQUIPMENT CAUSED EMISSIONS IN EXCESS OF APPLICABLE LIMITATION THIS MALFUNCTION RESULTED IN A VIOLATION OF: 326 IAC ______ OR, PERMIT CONDITION # _____ AND/OR PERMIT LIMIT OF THIS INCIDENT MEETS THE DEFINITION OF "MALFUNCTION" AS LISTED ON REVERSE SIDE? Y THIS MALFUNCTION IS OR WILL BE LONGER THAN THE ONE (1) HOUR REPORTING REQUIREMENT? Y COMPANY: PHONE NO. ()____ LOCATION: (CITY AND COUNTY)_ AFS POINT ID: ______ INSP:___ AFS PLANT ID: PERMIT NO. CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND REASON: DATE/TIME MALFUNCTION STARTED: ____/ ___/ 20____ AM / PM ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: _____ DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE_____/ 20____ AM/PM TYPE OF POLLUTANTS EMITTED: TSP, PM-10, SO2, VOC, OTHER:_____ ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: MEASURES TAKEN TO MINIMIZE EMISSIONS:___ REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS: CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL* SERVICES: CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS: CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT: INTERIM CONTROL MEASURES: (IF APPLICABLE)_ MALFUNCTION REPORTED BY: _______TITLE: _____ (SIGNATURE IF FAXED) MALFUNCTION RECORDED BY: ______DATE: _____TIME:___ *SEE PAGE 2

DRAFT

Page 30 of 30 M083-30150-00012

Please note - This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

326 IAC 1-6-1 Applicability of rule

Sec. 1. This rule applies to the owner or operator of any facility required to obtain a permit under 326 IAC 2-5.1 or 326 IAC 2-6.1.

326 IAC 1-2-39 "Malfunction" definition

Sec. 39. Any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner.

*Essential services are interpreted to mean those operations, such as, the providing of electricity by power plants. Continued operation solely for the economic benefit of the owner or operator shall not be sufficient reason why a facility cannot be shutdown during a control equipment shutdown.

If this item is checked on the front, please explain rationale:

Appendix A

SCHOTT Gemtron Corporation 2000 Chestnut Street Vincennes, Indiana 47591

Permit No. M083-30150-00012

Permit Reviewer: Janet Mobley

Title 40: Protection of Environment Subpart ZZZZ—National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Source: 69 FR 33506, June 15, 2004, unless otherwise noted.

What This Subpart Covers

§ 63.6580 What is the purpose of subpart ZZZZ?

Subpart ZZZZ establishes national emission limitations and operating limitations for hazardous air pollutants (HAP) emitted from stationary reciprocating internal combustion engines (RICE) located at major and area sources of HAP emissions. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limitations and operating limitations.

[73 FR 3603, Jan. 18, 2008]

§ 63.6585 Am I subject to this subpart?

You are subject to this subpart if you own or operate a stationary RICE at a major or area source of HAP emissions, except if the stationary RICE is being tested at a stationary RICE test cell/stand.

- (a) A stationary RICE is any internal combustion engine which uses reciprocating motion to convert heat energy into mechanical work and which is not mobile. Stationary RICE differ from mobile RICE in that a stationary RICE is not a non-road engine as defined at 40 CFR 1068.30, and is not used to propel a motor vehicle or a vehicle used solely for competition.
- (b) A major source of HAP emissions is a plant site that emits or has the potential to emit any single HAP at a rate of 10 tons (9.07 megagrams) or more per year or any combination of HAP at a rate of 25 tons (22.68 megagrams) or more per year, except that for oil and gas production facilities, a major source of HAP emissions is determined for each surface site.
- (c) An area source of HAP emissions is a source that is not a major source.
- (d) If you are an owner or operator of an area source subject to this subpart, your status as an entity subject to a standard or other requirements under this subpart does not subject you to the obligation to obtain a permit under 40 CFR part 70 or 71, provided you are not required to obtain a permit under 40 CFR 70.3(a) or 40 CFR 71.3(a) for a reason other than your status as an area source under this subpart. Notwithstanding the previous sentence, you must continue to comply with the provisions of this subpart as applicable.
- (e) If you are an owner or operator of a stationary RICE used for national security purposes, you may be eligible to request an exemption from the requirements of this subpart as described in 40 CFR part 1068, subpart C.

 $\hbox{ [69 FR 33506, June 15, 2004, as amended at 73 FR 3603, Jan. 18, 2008]}\\$

§ 63.6590 What parts of my plant does this subpart cover?

This subpart applies to each affected source.

- (a) Affected source. An affected source is any existing, new, or reconstructed stationary RICE located at a major or area source of HAP emissions, excluding stationary RICE being tested at a stationary RICE test cell/stand.
- (1) Existing stationary RICE.
- (i) For stationary RICE with a site rating of more than 500 brake horsepower (HP) located at a major source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before December 19, 2002.
- (ii) For stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before June 12, 2006.
- (iii) For stationary RICE located at an area source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before June 12, 2006.
- (iv) A change in ownership of an existing stationary RICE does not make that stationary RICE a new or reconstructed stationary RICE.

- (2) New stationary RICE. (i) A stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions is new if you commenced construction of the stationary RICE on or after December 19, 2002.
- (ii) A stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions is new if you commenced construction of the stationary RICE on or after June 12, 2006.
- (iii) A stationary RICE located at an area source of HAP emissions is new if you commenced construction of the stationary RICE on or after June 12, 2006
- (3) Reconstructed stationary RICE. (i) A stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions is reconstructed if you meet the definition of reconstruction in §63.2 and reconstruction is commenced on or after December 19, 2002.
- (ii) A stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions is reconstructed if you meet the definition of reconstruction in §63.2 and reconstruction is commenced on or after June 12, 2006.
- (iii) A stationary RICE located at an area source of HAP emissions is reconstructed if you meet the definition of reconstruction in §63.2 and reconstruction is commenced on or after June 12, 2006.
- (b) Stationary RICE subject to limited requirements. (1) An affected source which meets either of the criteria in paragraphs (b)(1)(i) through (ii) of this section does not have to meet the requirements of this subpart and of subpart A of this part except for the initial notification requirements of §63.6645(f).
- (i) The stationary RICE is a new or reconstructed emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions.
- (ii) The stationary RICE is a new or reconstructed limited use stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions.
- (2) A new or reconstructed stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis must meet the initial notification requirements of §63.6645(f) and the requirements of §63.6625(c), 63.6650(g), and 63.6655(c). These stationary RICE do not have to meet the emission limitations and operating limitations of this subpart.
- (3) The following stationary RICE do not have to meet the requirements of this subpart and of subpart A of this part, including initial notification requirements:
- (i) Existing spark ignition 2 stroke lean burn (2SLB) stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions;
- (ii) Existing spark ignition 4 stroke lean burn (4SLB) stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions:
- (iii) Existing emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions;
- (iv) Existing limited use stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions;
- (v) Existing stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis;
- (vi) Existing residential emergency stationary RICE located at an area source of HAP emissions;
- (vii) Existing commercial emergency stationary RICE located at an area source of HAP emissions; or
- (viii) Existing institutional emergency stationary RICE located at an area source of HAP emissions.
- (c) Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under this part.
- (1) A new or reconstructed stationary RICE located at an area source;
- (2) A new or reconstructed 2SLB stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions;

- (3) A new or reconstructed 4SLB stationary RICE with a site rating of less than 250 brake HP located at a major source of HAP emissions;
- (4) A new or reconstructed spark ignition 4 stroke rich burn (4SRB) stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions;
- (5) A new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis;
- (6) A new or reconstructed emergency or limited use stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions:
- (7) A new or reconstructed compression ignition (CI) stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions
- [69 FR 33506, June 15, 2004, as amended at 73 FR 3604, Jan. 18, 2008; 75 FR 9674, Mar. 3, 2010; 75 FR 37733, June 30, 2010; 75 FR 51588, Aug. 20, 2010]

§ 63.6595 When do I have to comply with this subpart?

- (a) Affected sources. (1) If you have an existing stationary RICE, excluding existing non-emergency CI stationary RICE, with a site rating of more than 500 brake HP located at a major source of HAP emissions, you must comply with the applicable emission limitations and operating limitations no later than June 15, 2007. If you have an existing non-emergency CI stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, or an existing stationary CI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, or an existing stationary CI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations and operating limitations no later than May 3, 2013. If you have an existing stationary SI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, or an existing stationary SI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations and operating limitations no later than October 19, 2013.
- (2) If you start up your new or reconstructed stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions before August 16, 2004, you must comply with the applicable emission limitations and operating limitations in this subpart no later than August 16, 2004.
- (3) If you start up your new or reconstructed stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions after August 16, 2004, you must comply with the applicable emission limitations and operating limitations in this subpart upon startup of your affected source.
- (4) If you start up your new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions before January 18, 2008, you must comply with the applicable emission limitations and operating limitations in this subpart no later than January 18, 2008.
- (5) If you start up your new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions after January 18, 2008, you must comply with the applicable emission limitations and operating limitations in this subpart upon startup of your affected source.
- (6) If you start up your new or reconstructed stationary RICE located at an area source of HAP emissions before January 18, 2008, you must comply with the applicable emission limitations and operating limitations in this subpart no later than January 18, 2008.
- (7) If you start up your new or reconstructed stationary RICE located at an area source of HAP emissions after January 18, 2008, you must comply with the applicable emission limitations and operating limitations in this subpart upon startup of your affected source.
- (b) Area sources that become major sources. If you have an area source that increases its emissions or its potential to emit such that it becomes a major source of HAP, the compliance dates in paragraphs (b)(1) and (2) of this section apply to you.
- (1) Any stationary RICE for which construction or reconstruction is commenced after the date when your area source becomes a major source of HAP must be in compliance with this subpart upon startup of your affected source.
- (2) Any stationary RICE for which construction or reconstruction is commenced before your area source becomes a major source of HAP must be in compliance with the provisions of this subpart that are applicable to RICE located at major sources within 3 years after your area source becomes a major source of HAP.
- (c) If you own or operate an affected source, you must meet the applicable notification requirements in §63.6645 and in 40 CFR part 63, subpart A.
- [69 FR 33506, June 15, 2004, as amended at 73 FR 3604, Jan. 18, 2008; 75 FR 9675, Mar. 3, 2010; 75 FR 51589, Aug. 20, 2010]

Emission and Operating Limitations

§ 63.6600 What emission limitations and operating limitations must I meet if I own or operate a stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions?

Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in §63.6620 and Table 4 to this subpart.

- (a) If you own or operate an existing, new, or reconstructed spark ignition 4SRB stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you must comply with the emission limitations in Table 1a to this subpart and the operating limitations in Table 1b to this subpart which apply to you.
- (b) If you own or operate a new or reconstructed 2SLB stationary RICE with a site rating of more than 500 brake HP located at major source of HAP emissions, a new or reconstructed 4SLB stationary RICE with a site rating of more than 500 brake HP located at major source of HAP emissions, or a new or reconstructed CI stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you must comply with the emission limitations in Table 2a to this subpart and the operating limitations in Table 2b to this subpart which apply to you.
- (c) If you own or operate any of the following stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the emission limitations in Tables 1a, 2a, 2c, and 2d to this subpart or operating limitations in Tables 1b and 2b to this subpart: an existing 2SLB stationary RICE; an existing 4SLB stationary RICE; a stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis; an emergency stationary RICE; or a limited use stationary RICE.
- (d) If you own or operate an existing non-emergency stationary CI RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you must comply with the emission limitations in Table 2c to this subpart and the operating limitations in Table 2b to this subpart which apply to you.

[73 FR 3605, Jan. 18, 2008, as amended at 75 FR 9675, Mar. 3, 2010]

§ 63.6601 What emission limitations must I meet if I own or operate a new or reconstructed 4SLB stationary RICE with a site rating of greater than or equal to 250 brake HP and less than or equal to 500 brake HP located at a major source of HAP emissions?

Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in §63.6620 and Table 4 to this subpart. If you own or operate a new or reconstructed 4SLB stationary RICE with a site rating of greater than or equal to 250 and less than or equal to 500 brake HP located at major source of HAP emissions manufactured on or after January 1, 2008, you must comply with the emission limitations in Table 2a to this subpart and the operating limitations in Table 2b to this subpart which apply to you.

[73 FR 3605, Jan. 18, 2008, as amended at 75 FR 9675, Mar. 3, 2010; 75 FR 51589, Aug. 20, 2010]

§ 63.6602 What emission limitations must I meet if I own or operate an existing stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions?

If you own or operate an existing stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions, you must comply with the emission limitations in Table 2c to this subpart which apply to you. Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in §63.6620 and Table 4 to this subpart.

[75 FR 51589, Aug. 20, 2010]

§ 63.6603 What emission limitations and operating limitations must I meet if I own or operate an existing stationary RICE located at an area source of HAP emissions?

Link to an amendment published at 76 FR 12866, March 9, 2011.

Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in §63.6620 and Table 4 to this subpart.

SCHOTT Gemtron Corporation Vincennes, Indiana Permit Reviewer: Janet Mobley Page 6 of 45 M083-30150-00012

(a) If you own or operate an existing stationary RICE located at an area source of HAP emissions, you must comply with the requirements in Table 2d to this subpart and the operating limitations in Table 2b to this subpart which apply to you.

(b) If you own or operate an existing stationary non-emergency CI RICE greater than 300 HP located at area sources in areas of Alaska not accessible by the Federal Aid Highway System (FAHS) you do not have to meet the numerical CO emission limitations specified in Table 2d to this subpart. Existing stationary non-emergency CI RICE greater than 300 HP located at area sources in areas of Alaska not accessible by the FAHS must meet the management practices that are shown for stationary non-emergency CI RICE less than or equal to 300 HP in Table 2d to this subpart.

[75 FR 9675, Mar. 3, 2010, as amended at 75 FR 51589, Aug. 20, 2010]

§ 63.6604 What fuel requirements must I meet if I own or operate an existing stationary CI RICE?

If you own or operate an existing non-emergency, non-black start CI stationary RICE with a site rating of more than 300 brake HP with a displacement of less than 30 liters per cylinder that uses diesel fuel, you must use diesel fuel that meets the requirements in 40 CFR 80.510(b) for nonroad diesel fuel. Existing non-emergency CI stationary RICE located in Guam, American Samoa, the Commonwealth of the Northern Mariana Islands, or at area sources in areas of Alaska not accessible by the FAHS are exempt from the requirements of this section.

[75 FR 51589, Aug. 20, 2010]

General Compliance Requirements

§ 63.6605 What are my general requirements for complying with this subpart?

(a) You must be in compliance with the emission limitations and operating limitations in this subpart that apply to you at all times.

(b) At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[75 FR 9675, Mar. 3, 2010]

Testing and Initial Compliance Requirements

§ 63.6610 By what date must I conduct the initial performance tests or other initial compliance demonstrations if I own or operate a stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions?

If you own or operate a stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions you are subject to the requirements of this section.

- (a) You must conduct the initial performance test or other initial compliance demonstrations in Table 4 to this subpart that apply to you within 180 days after the compliance date that is specified for your stationary RICE in §63.6595 and according to the provisions in §63.7(a)(2).
- (b) If you commenced construction or reconstruction between December 19, 2002 and June 15, 2004 and own or operate stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you must demonstrate initial compliance with either the proposed emission limitations or the promulgated emission limitations no later than February 10, 2005 or no later than 180 days after startup of the source, whichever is later, according to §63.7(a)(2)(ix).
- (c) If you commenced construction or reconstruction between December 19, 2002 and June 15, 2004 and own or operate stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, and you chose to comply with the proposed emission limitations when demonstrating initial compliance, you must conduct a second performance test to demonstrate compliance with the promulgated emission limitations by December 13, 2007 or after startup of the source, whichever is later, according to §63.7(a)(2)(ix).
- (d) An owner or operator is not required to conduct an initial performance test on units for which a performance test has been previously conducted, but the test must meet all of the conditions described in paragraphs (d)(1) through (5) of this section.
- (1) The test must have been conducted using the same methods specified in this subpart, and these methods must have been followed correctly.
- (2) The test must not be older than 2 years.

SCHOTT Gemtron Corporation Page 7 of 45 Vincennes, Indiana M083-30150-00012

Permit Reviewer: Janet Mobley

(3) The test must be reviewed and accepted by the Administrator.

(4) Either no process or equipment changes must have been made since the test was performed, or the owner or operator must be able to demonstrate that the results of the performance test, with or without adjustments, reliably demonstrate compliance despite process or equipment changes.

(5) The test must be conducted at any load condition within plus or minus 10 percent of 100 percent load.

[69 FR 33506, June 15, 2004, as amended at 73 FR 3605, Jan. 18, 2008]

§ 63.6611 By what date must I conduct the initial performance tests or other initial compliance demonstrations if I own or operate a new or reconstructed 4SLB SI stationary RICE with a site rating of greater than or equal to 250 and less than or equal to 500 brake HP located at a major source of HAP emissions?

If you own or operate a new or reconstructed 4SLB stationary RICE with a site rating of greater than or equal to 250 and less than or equal to 500 brake HP located at a major source of HAP emissions, you must conduct an initial performance test within 240 days after the compliance date that is specified for your stationary RICE in §63.6595 and according to the provisions specified in Table 4 to this subpart, as appropriate.

[73 FR 3605, Jan. 18, 2008, as amended at 75 FR 51589, Aug. 20, 2010]

§ 63.6612 By what date must I conduct the initial performance tests or other initial compliance demonstrations if I own or operate an existing stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing stationary RICE located at an area source of HAP emissions?

If you own or operate an existing stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing stationary RICE located at an area source of HAP emissions you are subject to the requirements of this section.

- (a) You must conduct any initial performance test or other initial compliance demonstration according to Tables 4 and 5 to this subpart that apply to you within 180 days after the compliance date that is specified for your stationary RICE in §63.6595 and according to the provisions in §63.7(a)(2).
- (b) An owner or operator is not required to conduct an initial performance test on a unit for which a performance test has been previously conducted, but the test must meet all of the conditions described in paragraphs (b)(1) through (4) of this section.
- (1) The test must have been conducted using the same methods specified in this subpart, and these methods must have been followed correctly.
- (2) The test must not be older than 2 years.
- (3) The test must be reviewed and accepted by the Administrator.
- (4) Either no process or equipment changes must have been made since the test was performed, or the owner or operator must be able to demonstrate that the results of the performance test, with or without adjustments, reliably demonstrate compliance despite process or equipment changes.

 $[75\; FR\; 9676, Mar.\; 3,\; 2010, \; as \; amended \; at \; 75\; FR\; 51589, \; Aug.\; 20,\; 2010]$

§ 63.6615 When must I conduct subsequent performance tests?

If you must comply with the emission limitations and operating limitations, you must conduct subsequent performance tests as specified in Table 3 of this subpart.

§ 63.6620 What performance tests and other procedures must I use?

- (a) You must conduct each performance test in Tables 3 and 4 of this subpart that applies to you.
- (b) Each performance test must be conducted according to the requirements that this subpart specifies in Table 4 to this subpart. If you own or operate a non-operational stationary RICE that is subject to performance testing, you do not need to start up the engine solely to conduct the performance test. Owners and operators of a non-operational engine can conduct the performance test when the engine is started up again.

(c) [Reserved]

(d) You must conduct three separate test runs for each performance test required in this section, as specified in §63.7(e)(3). Each test run must last at least 1 hour.

(e)(1) You must use Equation 1 of this section to determine compliance with the percent reduction requirement:

$$\frac{C_i - C_o}{C_i} \times 100 = R \qquad \text{(Eq. 1)}$$

Where:

C_i= concentration of CO or formaldehyde at the control device inlet,

C_o= concentration of CO or formaldehyde at the control device outlet, and

R = percent reduction of CO or formaldehyde emissions.

(2) You must normalize the carbon monoxide (CO) or formaldehyde concentrations at the inlet and outlet of the control device to a dry basis and to 15 percent oxygen, or an equivalent percent carbon dioxide (CO₂). If pollutant concentrations are to be corrected to 15 percent oxygen and CO₂concentration is measured in lieu of oxygen concentration measurement, a CO₂correction factor is needed. Calculate the CO₂correction factor as described in paragraphs (e)(2)(i) through (iii) of this section.

(i) Calculate the fuel-specific Fovalue for the fuel burned during the test using values obtained from Method 19, section 5.2, and the following equation:

$$F_o = \frac{0.209 \, F_d}{F_c}$$
 (Eq. 2)

Where:

 F_o = Fuel factor based on the ratio of oxygen volume to the ultimate CO_2 volume produced by the fuel at zero percent excess air.

0.209 = Fraction of air that is oxygen, percent/100.

 F_d = Ratio of the volume of dry effluent gas to the gross calorific value of the fuel from Method 19, dsm³ /J (dscf/10⁶ Btu).

 F_c = Ratio of the volume of CO_2 produced to the gross calorific value of the fuel from Method 19, dsm³ /J (dscf/10⁶ Btu).

(ii) Calculate the CO₂ correction factor for correcting measurement data to 15 percent oxygen, as follows:

$$X_{oo_1} = \frac{5.9}{F_o}$$
 (Eq. 3)

Where:

 X_{co2} = CO_2 correction factor, percent.

5.9 = 20.9 percent O_2 -15 percent O_2 , the defined O_2 correction value, percent.

(iii) Calculate the NO_x and SO₂ gas concentrations adjusted to 15 percent O₂ using CO₂ as follows:

$$C_{\alpha dj} = C_d \, \frac{X_{co_2}}{\% \, CO_2} \qquad \mbox{(Eq. 4)} \label{eq:constraint}$$

Where:

%CO₂= Measured CO₂ concentration measured, dry basis, percent.

- (f) If you comply with the emission limitation to reduce CO and you are not using an oxidation catalyst, if you comply with the emission limitation to reduce formaldehyde and you are not using NSCR, or if you comply with the emission limitation to limit the concentration of formaldehyde in the stationary RICE exhaust and you are not using an oxidation catalyst or NSCR, you must petition the Administrator for operating limitations to be established during the initial performance test and continuously monitored thereafter; or for approval of no operating limitations. You must not conduct the initial performance test until after the petition has been approved by the Administrator.
- (g) If you petition the Administrator for approval of operating limitations, your petition must include the information described in paragraphs (g)(1) through (5) of this section.
- (1) Identification of the specific parameters you propose to use as operating limitations;
- (2) A discussion of the relationship between these parameters and HAP emissions, identifying how HAP emissions change with changes in these parameters, and how limitations on these parameters will serve to limit HAP emissions;
- (3) A discussion of how you will establish the upper and/or lower values for these parameters which will establish the limits on these parameters in the operating limitations;
- (4) A discussion identifying the methods you will use to measure and the instruments you will use to monitor these parameters, as well as the relative accuracy and precision of these methods and instruments; and
- (5) A discussion identifying the frequency and methods for recalibrating the instruments you will use for monitoring these parameters.
- (h) If you petition the Administrator for approval of no operating limitations, your petition must include the information described in paragraphs (h)(1) through (7) of this section.
- (1) Identification of the parameters associated with operation of the stationary RICE and any emission control device which could change intentionally (e.g., operator adjustment, automatic controller adjustment, etc.) or unintentionally (e.g., wear and tear, error, etc.) on a routine basis or over time;
- (2) A discussion of the relationship, if any, between changes in the parameters and changes in HAP emissions;
- (3) For the parameters which could change in such a way as to increase HAP emissions, a discussion of whether establishing limitations on the parameters would serve to limit HAP emissions;
- (4) For the parameters which could change in such a way as to increase HAP emissions, a discussion of how you could establish upper and/or lower values for the parameters which would establish limits on the parameters in operating limitations;
- (5) For the parameters, a discussion identifying the methods you could use to measure them and the instruments you could use to monitor them, as well as the relative accuracy and precision of the methods and instruments;
- (6) For the parameters, a discussion identifying the frequency and methods for recalibrating the instruments you could use to monitor them; and
- (7) A discussion of why, from your point of view, it is infeasible or unreasonable to adopt the parameters as operating limitations.
- (i) The engine percent load during a performance test must be determined by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load in a specific application. A written report of the average percent load determination must be included in the notification of compliance status. The following information must be included in the written report: the engine model number, the engine manufacturer, the year of purchase, the manufacturer's site-rated brake horsepower, the ambient temperature, pressure, and humidity during the performance test, and all assumptions that were made to estimate or calculate percent load during the performance test must be clearly explained. If measurement devices such as flow meters, kilowatt meters, beta analyzers, stain gauges, etc. are used, the model number of the measurement device, and an estimate of its accurate in percentage of true value must be provided.

§ 63.6625 What are my monitoring, installation, collection, operation, and maintenance requirements?

Link to an amendment published at 76 FR 12866, March 9, 2011.

- (a) If you elect to install a CEMS as specified in Table 5 of this subpart, you must install, operate, and maintain a CEMS to monitor CO and either oxygen or CO2at both the inlet and the outlet of the control device according to the requirements in paragraphs (a)(1) through (4) of this section.
- (1) Each CEMS must be installed, operated, and maintained according to the applicable performance specifications of 40 CFR part 60, appendix B.
- (2) You must conduct an initial performance evaluation and an annual relative accuracy test audit (RATA) of each CEMS according to the requirements in §63.8 and according to the applicable performance specifications of 40 CFR part 60, appendix B as well as daily and periodic data quality checks in accordance with 40 CFR part 60, appendix F, procedure 1.
- (3) As specified in §63.8(c)(4)(ii), each CEMS must complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period. You must have at least two data points, with each representing a different 15-minute period, to have a valid hour of data.
- (4) The CEMS data must be reduced as specified in §63.8(q)(2) and recorded in parts per million or parts per billion (as appropriate for the applicable limitation) at 15 percent oxygen or the equivalent CO₂ concentration.
- (b) If you are required to install a continuous parameter monitoring system (CPMS) as specified in Table 5 of this subpart, you must install, operate, and maintain each CPMS according to the requirements in paragraphs (b)(1) through (8) of this section.
- (1) The CPMS must complete a minimum of one cycle of operation for each successive 15-minute period. You must have a minimum of four successive cycles of operation to have a valid hour of data.
- (2) Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), you must conduct all monitoring in continuous operation at all times that the unit is operating. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.
- (3) For purposes of calculating data averages, you must not use data recorded during monitoring malfunctions, associated repairs, out of control periods, or required quality assurance or control activities. You must use all the data collected during all other periods in assessing compliance. Any 15-minute period for which the monitoring system is out-of-control and data are not available for required calculations constitutes a deviation from the monitoring requirements.
- (4) Determine the 3-hour block average of all recorded readings, except as provided in paragraph (b)(3) of this section.
- (5) Record the results of each inspection, calibration, and validation check.
- (6) You must develop a site-specific monitoring plan that addresses paragraphs (b)(6)(i) through (vi) of this section.
- (i) Installation of the CPMS sampling probe or other interface at the appropriate location to obtain representative measurements;
- (ii) Performance and equipment specifications for the sample interface, parametric signal analyzer, and the data collection and reduction systems;
- (iii) Performance evaluation procedures and acceptance criteria (e.g., calibrations);
- (iv) Ongoing operation and maintenance procedures in accordance with the general requirements of §63.8(c)(1), (c)(3), and (c)(4)(ii);
- (v) Ongoing data quality assurance procedures in accordance with the general requirements of §63.8(d); and
- (vi) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of §63.10(c), (e)(1), and (e)(2)(i).
- (7) You must conduct a performance evaluation of each CPMS in accordance with your site-specific monitoring plan.
- (8) You must operate and maintain the CPMS in continuous operation according to the site-specific monitoring plan.
- (c) If you are operating a new or reconstructed stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, you must monitor and record your fuel usage daily with separate fuel meters to measure the volumetric flow rate of each fuel. In addition, you must operate your stationary RICE in a manner which reasonably minimizes HAP emissions.

- (d) If you are operating a new or reconstructed emergency 4SLB stationary RICE with a site rating of greater than or equal to 250 and less than or equal to 500 brake HP located at a major source of HAP emissions, you must install a non-resettable hour meter prior to the startup of the engine.
- (e) If you own or operate any of the following stationary RICE, you must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions:
- (1) An existing stationary RICE with a site rating of less than 100 HP located at a major source of HAP emissions;
- (2) An existing emergency or black start stationary RICE with a site rating of less than or equal to 500 HP located at a major source of HAP emissions;
- (3) An existing emergency or black start stationary RICE located at an area source of HAP emissions;
- (4) An existing non-emergency, non-black start stationary CI RICE with a site rating less than or equal to 300 HP located at an area source of HAP emissions:
- (5) An existing non-emergency, non-black start 2SLB stationary RICE located at an area source of HAP emissions;
- (6) An existing non-emergency, non-black start landfill or digester gas stationary RICE located at an area source of HAP emissions;
- (7) An existing non-emergency, non-black start 4SLB stationary RICE with a site rating less than or equal to 500 HP located at an area source of HAP emissions:
- (8) An existing non-emergency, non-black start 4SRB stationary RICE with a site rating less than or equal to 500 HP located at an area source of HAP emissions:
- (9) An existing, non-emergency, non-black start 4SLB stationary RICE with a site rating greater than 500 HP located at an area source of HAP emissions that is operated 24 hours or less per calendar year; and
- (10) An existing, non-emergency, non-black start 4SRB stationary RICE with a site rating greater than 500 HP located at an area source of HAP emissions that is operated 24 hours or less per calendar year.
- (f) If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing emergency stationary RICE located at an area source of HAP emissions, you must install a non-resettable hour meter if one is not already installed.
- (g) If you own or operate an existing non-emergency, non-black start CI engine greater than or equal to 300 HP that is not equipped with a closed crankcase ventilation system, you must comply with either paragraph (g)(1) or paragraph (g)(2) of this section. Owners and operators must follow the manufacturer's specified maintenance requirements for operating and maintaining the open or closed crankcase ventilation systems and replacing the crankcase filters, or can request the Administrator to approve different maintenance requirements that are as protective as manufacturer requirements. Existing CI engines located at area sources in areas of Alaska not accessible by the FAHS do not have to meet the requirements of paragraph (g) of this section.
- (1) Install a closed crankcase ventilation system that prevents crankcase emissions from being emitted to the atmosphere, or
- (2) Install an open crankcase filtration emission control system that reduces emissions from the crankcase by filtering the exhaust stream to remove oil mist, particulates, and metals.
- (h) If you operate a new, reconstructed, or existing stationary engine, you must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to this subpart apply.
- (i) If you own or operate a stationary CI engine that is subject to the work, operation or management practices in items 1 or 2 of Table 2c to this subpart or in items 1 or 4 of Table 2d to this subpart, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.
- (j) If you own or operate a stationary SI engine that is subject to the work, operation or management practices in items 6, 7, or 8 of Table 2c to this subpart or in items 5, 6, 7, 9, or 11 of Table 2d to this subpart, you have the option of utilizing an oil analysis program in order to extend the specified

Vincennes, Indiana Permit Reviewer: Janet Mobley

oil change requirement in Tables 2c and 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Acid Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Acid Number increases by more than 3.0 milligrams of potassium hydroxide (KOH) per gram from Total Acid Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

- (k) If you have an operating limitation that requires the use of a temperature measurement device, you must meet the requirements in paragraphs (k)(1) through (4) of this section.
- (1) Locate the temperature sensor and other necessary equipment in a position that provides a representative temperature.
- (2) Use a temperature sensor with a minimum tolerance of 2.8 degrees Celsius (5 degrees Fahrenheit), or 1.0 percent of the temperature value, whichever is larger, for a noncryogenic temperature range.
- (3) Use a temperature sensor with a minimum tolerance of 2.8 degrees Celsius (5 degrees Fahrenheit), or 2.5 percent of the temperature value, whichever is larger, for a cryogenic temperature range
- (4) Conduct a temperature measurement device calibration check at least every 3 months.

[69 FR 33506, June 15, 2004, as amended at 73 FR 3606, Jan. 18, 2008; 75 FR 9676, Mar. 3, 2010; 75 FR 51589, Aug. 20, 2010]

§ 63.6630 How do I demonstrate initial compliance with the emission limitations and operating limitations?

- (a) You must demonstrate initial compliance with each emission and operating limitation that applies to you according to Table 5 of this subpart.
- (b) During the initial performance test, you must establish each operating limitation in Tables 1b and 2b of this subpart that applies to you.
- (c) You must submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in \$63,6645.

Continuous Compliance Requirements

§ 63.6635 How do I monitor and collect data to demonstrate continuous compliance?

Link to an amendment published at 76 FR 12867, March 9, 2011.

- (a) If you must comply with emission and operating limitations, you must monitor and collect data according to this section.
- (b) Except for monitor malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), you must monitor continuously at all times that the stationary RICE is operating.
- (c) You may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels. You must, however, use all the valid data collected during all other periods.

§ 63.6640 How do I demonstrate continuous compliance with the emission limitations and operating limitations?

- (a) You must demonstrate continuous compliance with each emission limitation and operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that apply to you according to methods specified in Table 6 to this subpart.
- (b) You must report each instance in which you did not meet each emission limitation or operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that apply to you. These instances are deviations from the emission and operating limitations in this subpart. These deviations must be reported according to the requirements in §63.6650. If you change your catalyst, you must reestablish the values of the operating parameters measured during the initial performance test. When you reestablish the values of your operating parameters, you must also conduct a performance test to demonstrate that you are meeting the required emission limitation applicable to your stationary RICE.

SCHOTT Gemtron Corporation Vincennes, Indiana Permit Reviewer: Janet Mobley Page 13 of 45 M083-30150-00012

(c) [Reserved]

- (d) For new, reconstructed, and rebuilt stationary RICE, deviations from the emission or operating limitations that occur during the first 200 hours of operation from engine startup (engine burn-in period) are not violations. Rebuilt stationary RICE means a stationary RICE that has been rebuilt as that term is defined in 40 CFR 94.11(a).
- (e) You must also report each instance in which you did not meet the requirements in Table 8 to this subpart that apply to you. If you own or operate a new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions (except new or reconstructed 4SLB engines greater than or equal to 250 and less than or equal to 500 brake HP), a new or reconstructed stationary RICE located at an area source of HAP emissions, or any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in Table 8 to this subpart: An existing 2SLB stationary RICE, an existing 4SLB stationary RICE, an existing emergency stationary RICE, an existing limited use stationary RICE, or an existing stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis. If you own or operate any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in Table 8 to this subpart, except for the initial notification requirements: a new or reconstructed stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, a new or reconstructed emergency stationary RICE, or a new or reconstructed limited use stationary RICE.
- (f) Requirements for emergency stationary RICE. (1) If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, a new or reconstructed emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions that was installed on or after June 12, 2006, or an existing emergency stationary RICE located at an area source of HAP emissions, you must operate the emergency stationary RICE according to the requirements in paragraphs (f)(1)(i) through (iii) of this section. Any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1)(i) through (iii) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1)(i) through (iii) of this section, the engine will not be considered an emergency engine under this subpart and will need to meet all requirements for non-emergency engines.
- (i) There is no time limit on the use of emergency stationary RICE in emergency situations.
- (ii) You may operate your emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year.
- (iii) You may operate your emergency stationary RICE up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity; except that owners and operators may operate the emergency engine for a maximum of 15 hours per year as part of a demand response program if the regional transmission organization or equivalent balancing authority and transmission operator has determined there are emergency conditions that could lead to a potential electrical blackout, such as unusually low frequency, equipment overload, capacity or energy deficiency, or unacceptable voltage level. The engine may not be operated for more than 30 minutes prior to the time when the emergency condition is expected to occur, and the engine operation must be terminated immediately after the facility is notified that the emergency condition is no longer imminent. The 15 hours per year of demand response operation are counted as part of the 50 hours of operation per year provided for non-emergency situations. The supply of emergency power to another entity or entities pursuant to financial arrangement is not limited by this paragraph (f)(1)(iii), as long as the power provided by the financial arrangement is limited to emergency power.
- (2) If you own or operate an emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions that was installed prior to June 12, 2006, you must operate the engine according to the conditions described in paragraphs (f)(2)(i) through (iii) of this section. If you do not operate the engine according to the requirements in paragraphs (f)(2)(i) through (iii) of this section, the engine will not be considered an emergency engine under this subpart and will need to meet all requirements for non-emergency engines.
- (i) There is no time limit on the use of emergency stationary RICE in emergency situations.
- (ii) You may operate your emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by the manufacturer, the vendor, or the insurance company associated with the engine. Required testing of such units should be minimized, but there is no time limit on the use of emergency stationary RICE in emergency situations and for routine testing and maintenance.
- (iii) You may operate your emergency stationary RICE for an additional 50 hours per year in non-emergency situations. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.
- [69 FR 33506, June 15, 2004, as amended at 71 FR 20467, Apr. 20, 2006; 73 FR 3606, Jan. 18, 2008; 75 FR 9676, Mar. 3, 2010; 75 FR 51591, Aug. 20, 2010]

Notifications, Reports, and Records

§ 63.6645 What notifications must I submit and when?

- (a) You must submit all of the notifications in §§63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9(b) through (e), and (g) and (h) that apply to you by the dates specified if you own or operate any of the following;
- (1) An existing stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions.
- (2) An existing stationary RICE located at an area source of HAP emissions.
- (3) A stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions.
- (4) A new or reconstructed 4SLB stationary RICE with a site rating of greater than or equal to 250 HP located at a major source of HAP emissions.
- (5) This requirement does not apply if you own or operate an existing stationary RICE less than 100 HP, an existing stationary emergency RICE, or an existing stationary RICE that is not subject to any numerical emission standards.
- (b) As specified in §63.9(b)(2), if you start up your stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions before the effective date of this subpart, you must submit an Initial Notification not later than December 13, 2004.
- (c) If you start up your new or reconstructed stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions on or after August 16, 2004, you must submit an Initial Notification not later than 120 days after you become subject to this subpart.
- (d) As specified in §63.9(b)(2), if you start up your stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions before the effective date of this subpart and you are required to submit an initial notification, you must submit an Initial Notification not later than July 16, 2008.
- (e) If you start up your new or reconstructed stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions on or after March 18, 2008 and you are required to submit an initial notification, you must submit an Initial Notification not later than 120 days after you become subject to this subpart.
- (f) If you are required to submit an Initial Notification but are otherwise not affected by the requirements of this subpart, in accordance with §63.6590(b), your notification should include the information in §63.9(b)(2)(i) through (v), and a statement that your stationary RICE has no additional requirements and explain the basis of the exclusion (for example, that it operates exclusively as an emergency stationary RICE if it has a site rating of more than 500 brake HP located at a major source of HAP emissions).
- (g) If you are required to conduct a performance test, you must submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin as required in §63.7(b)(1).
- (h) If you are required to conduct a performance test or other initial compliance demonstration as specified in Tables 4 and 5 to this subpart, you must submit a Notification of Compliance Status according to §63.9(h)(2)(ii).
- (1) For each initial compliance demonstration required in Table 5 to this subpart that does not include a performance test, you must submit the Notification of Compliance Status before the close of business on the 30th day following the completion of the initial compliance demonstration.
- (2) For each initial compliance demonstration required in Table 5 to this subpart that includes a performance test conducted according to the requirements in Table 3 to this subpart, you must submit the Notification of Compliance Status, including the performance test results, before the close of business on the 60th day following the completion of the performance test according to §63.10(d)(2).

[73 FR 3606, Jan. 18, 2008, as amended at 75 FR 9677, Mar. 3, 2010; 75 FR 51591, Aug. 20, 2010]

§ 63.6650 What reports must I submit and when?

- (a) You must submit each report in Table 7 of this subpart that applies to you.
- (b) Unless the Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report by the date in Table 7 of this subpart and according to the requirements in paragraphs (b)(1) through (b)(9) of this section.
- (1) For semiannual Compliance reports, the first Compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.6595 and ending on June 30 or December 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for your source in §63.6595.
- (2) For semiannual Compliance reports, the first Compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date follows the end of the first calendar half after the compliance date that is specified for your affected source in §63.6595.

- (3) For semiannual Compliance reports, each subsequent Compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.
- (4) For semiannual Compliance reports, each subsequent Compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.
- (5) For each stationary RICE that is subject to permitting regulations pursuant to 40 CFR part 70 or 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6 (a)(3)(iii)(A), you may submit the first and subsequent Compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (b)(1) through (b)(4) of this section.
- (6) For annual Compliance reports, the first Compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.6595 and ending on December 31.
- (7) For annual Compliance reports, the first Compliance report must be postmarked or delivered no later than January 31 following the end of the first calendar year after the compliance date that is specified for your affected source in §63.6595.
- (8) For annual Compliance reports, each subsequent Compliance report must cover the annual reporting period from January 1 through December 31.
- (9) For annual Compliance reports, each subsequent Compliance report must be postmarked or delivered no later than January 31.
- (c) The Compliance report must contain the information in paragraphs (c)(1) through (6) of this section.
- (1) Company name and address.
- (2) Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report.
- (3) Date of report and beginning and ending dates of the reporting period.
- (4) If you had a malfunction during the reporting period, the compliance report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by an owner or operator during a malfunction of an affected source to minimize emissions in accordance with §63.6605(b), including actions taken to correct a malfunction.
- (5) If there are no deviations from any emission or operating limitations that apply to you, a statement that there were no deviations from the emission or operating limitations during the reporting period.
- (6) If there were no periods during which the continuous monitoring system (CMS), including CEMS and CPMS, was out-of-control, as specified in §63.8(c)(7), a statement that there were no periods during which the CMS was out-of-control during the reporting period.
- (d) For each deviation from an emission or operating limitation that occurs for a stationary RICE where you are not using a CMS to comply with the emission or operating limitations in this subpart, the Compliance report must contain the information in paragraphs (c)(1) through (4) of this section and the information in paragraphs (d)(1) and (2) of this section.
- (1) The total operating time of the stationary RICE at which the deviation occurred during the reporting period.
- (2) Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.
- (e) For each deviation from an emission or operating limitation occurring for a stationary RICE where you are using a CMS to comply with the emission and operating limitations in this subpart, you must include information in paragraphs (c)(1) through (4) and (e)(1) through (12) of this section.
- (1) The date and time that each malfunction started and stopped.
- (2) The date, time, and duration that each CMS was inoperative, except for zero (low-level) and high-level checks.
- (3) The date, time, and duration that each CMS was out-of-control, including the information in §63.8(c)(8).
- (4) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of malfunction or during another period.
- (5) A summary of the total duration of the deviation during the reporting period, and the total duration as a percent of the total source operating time during that reporting period.

SCHOTT Gemtron Corporation Vincennes, Indiana Permit Reviewer: Janet Mobley Page 16 of 45 M083-30150-00012

- (6) A breakdown of the total duration of the deviations during the reporting period into those that are due to control equipment problems, process problems, other known causes, and other unknown causes.
- (7) A summary of the total duration of CMS downtime during the reporting period, and the total duration of CMS downtime as a percent of the total operating time of the stationary RICE at which the CMS downtime occurred during that reporting period.
- (8) An identification of each parameter and pollutant (CO or formaldehyde) that was monitored at the stationary RICE.
- (9) A brief description of the stationary RICE.
- (10) A brief description of the CMS.
- (11) The date of the latest CMS certification or audit.
- (12) A description of any changes in CMS, processes, or controls since the last reporting period.
- (f) Each affected source that has obtained a title V operating permit pursuant to 40 CFR part 70 or 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6 (a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If an affected source submits a Compliance report pursuant to Table 7 of this subpart along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the Compliance report includes all required information concerning deviations from any emission or operating limitation in this subpart, submission of the Compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a Compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permit authority.
- (g) If you are operating as a new or reconstructed stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, you must submit an annual report according to Table 7 of this subpart by the date specified unless the Administrator has approved a different schedule, according to the information described in paragraphs (b)(1) through (b)(5) of this section. You must report the data specified in (g)(1) through (g)(3) of this section.
- (1) Fuel flow rate of each fuel and the heating values that were used in your calculations. You must also demonstrate that the percentage of heat input provided by landfill gas or digester gas is equivalent to 10 percent or more of the total fuel consumption on an annual basis.
- (2) The operating limits provided in your federally enforceable permit, and any deviations from these limits.
- (3) Any problems or errors suspected with the meters.

[69 FR 33506, June 15, 2004, as amended at 75 FR 9677, Mar. 3, 2010]

§ 63.6655 What records must I keep?

- (a) If you must comply with the emission and operating limitations, you must keep the records described in paragraphs (a)(1) through (b)(3) and (c) of this section.
- (1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in §63.10(b)(2)(xiv).
- (2) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.
- (3) Records of performance tests and performance evaluations as required in §63.10(b)(2)(viii).
- (4) Records of all required maintenance performed on the air pollution control and monitoring equipment.
- (5) Records of actions taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.
- (b) For each CEMS or CPMS, you must keep the records listed in paragraphs (b)(1) through (3) of this section.
- (1) Records described in §63.10(b)(2)(vi) through (xi).
- (2) Previous (i.e., superseded) versions of the performance evaluation plan as required in §63.8(d)(3).

Vincennes, Indiana Permit Reviewer: Janet Mobley

- (3) Requests for alternatives to the relative accuracy test for CEMS or CPMS as required in §63.8(f)(6)(i), if applicable.
- (c) If you are operating a new or reconstructed stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, you must keep the records of your daily fuel usage monitors.
- (d) You must keep the records required in Table 6 of this subpart to show continuous compliance with each emission or operating limitation that applies
- (e) You must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan if you own or operate any of the following stationary RICE;
- (1) An existing stationary RICE with a site rating of less than 100 brake HP located at a major source of HAP emissions.
- (2) An existing stationary emergency RICE.
- (3) An existing stationary RICE located at an area source of HAP emissions subject to management practices as shown in Table 2d to this subpart.
- (f) If you own or operate any of the stationary RICE in paragraphs (f)(1) or (2) of this section, you must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engines are used for demand response operation, the owner or operator must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response.
- (1) An existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions that does not meet the standards applicable to non-emergency engines.
- (2) An existing emergency stationary RICE located at an area source of HAP emissions that does not meet the standards applicable to non-emergency engines.

[69 FR 33506, June 15, 2004, as amended at 75 FR 9678, Mar. 3, 2010; 75 FR 51592, Aug. 20, 2010]

§ 63.6660 In what form and how long must I keep my records?

- (a) Your records must be in a form suitable and readily available for expeditious review according to §63.10(b)(1).
- (b) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.
- (c) You must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1).

[69 FR 33506, June 15, 2004, as amended at 75 FR 9678, Mar. 3, 2010]

Other Requirements and Information

§ 63.6665 What parts of the General Provisions apply to me?

Table 8 to this subpart shows which parts of the General Provisions in §§63.1 through 63.15 apply to you. If you own or operate a new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions (except new or reconstructed 4SLB engines greater than or equal to 250 and less than or equal to 500 brake HP), a new or reconstructed stationary RICE located at an area source of HAP emissions, or any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with any of the requirements of the General Provisions specified in Table 8: An existing 2SLB stationary RICE, an existing 4SLB stationary RICE, an existing stationary RICE that combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, an existing emergency stationary RICE, or an existing limited use stationary RICE. If you own or operate any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in the General Provisions specified in Table 8 except for the initial notification requirements: A new stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, a new emergency stationary RICE, or a new limited use stationary RICE.

[75 FR 9678, Mar. 3, 2010]

§ 63.6670 Who implements and enforces this subpart?

Vincennes, Indiana Permit Reviewer: Janet Mobley

- (a) This subpart is implemented and enforced by the U.S. EPA, or a delegated authority such as your State, local, or tribal agency. If the U.S. EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency (as well as the U.S. EPA) has the authority to implement and enforce this subpart. You should contact your U.S. EPA Regional Office to find out whether this subpart is delegated to your State, local, or tribal agency.
- (b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under 40 CFR part 63, subpart E, the authorities contained in paragraph (c) of this section are retained by the Administrator of the U.S. EPA and are not transferred to the State, local, or
- (c) The authorities that will not be delegated to State, local, or tribal agencies are:
- (1) Approval of alternatives to the non-opacity emission limitations and operating limitations in §63.6600 under §63.6(g).
- (2) Approval of major alternatives to test methods under §63.7(e)(2)(ii) and (f) and as defined in §63.90.
- (3) Approval of major alternatives to monitoring under §63.8(f) and as defined in §63.90.
- (4) Approval of major alternatives to recordkeeping and reporting under §63.10(f) and as defined in §63.90.
- (5) Approval of a performance test which was conducted prior to the effective date of the rule, as specified in §63.6610(b).

§ 63.6675 What definitions apply to this subpart?

Link to an amendment published at 76 FR 12867, March 9, 2011.

Terms used in this subpart are defined in the Clean Air Act (CAA); in 40 CFR 63.2, the General Provisions of this part; and in this section as follows:

Area source means any stationary source of HAP that is not a major source as defined in part 63.

Associated equipment as used in this subpart and as referred to in section 112(n)(4) of the CAA, means equipment associated with an oil or natural gas exploration or production well, and includes all equipment from the well bore to the point of custody transfer, except glycol dehydration units, storage vessels with potential for flash emissions, combustion turbines, and stationary RICE.

Black start engine means an engine whose only purpose is to start up a combustion turbine.

CAA means the Clean Air Act (42 U.S.C. 7401 et seq., as amended by Public Law 101-549, 104 Stat. 2399).

Commercial emergency stationary RICE means an emergency stationary RICE used in commercial establishments such as office buildings, hotels, stores, telecommunications facilities, restaurants, financial institutions such as banks, doctor's offices, and sports and performing arts facilities.

Compression ignition means relating to a type of stationary internal combustion engine that is not a spark ignition engine.

Custody transfer means the transfer of hydrocarbon liquids or natural gas: After processing and/or treatment in the producing operations, or from storage vessels or automatic transfer facilities or other such equipment, including product loading racks, to pipelines or any other forms of transportation. For the purposes of this subpart, the point at which such liquids or natural gas enters a natural gas processing plant is a point of custody transfer.

Deviation means any instance in which an affected source subject to this subpart, or an owner or operator of such a source:

- (1) Fails to meet any requirement or obligation established by this subpart, including but not limited to any emission limitation or operating limitation;
- (2) Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit; or
- (3) Fails to meet any emission limitation or operating limitation in this subpart during malfunction, regardless or whether or not such failure is permitted by this subpart.
- (4) Fails to satisfy the general duty to minimize emissions established by §63.6(e)(1)(i).

Diesel engine means any stationary RICE in which a high boiling point liquid fuel injected into the combustion chamber ignites when the air charge has been compressed to a temperature sufficiently high for auto-ignition. This process is also known as compression ignition.

SCHOTT Gemtron Corporation Vincennes, Indiana Permit Reviewer: Janet Mobley Page 19 of 45 M083-30150-00012

Diesel fuel means any liquid obtained from the distillation of petroleum with a boiling point of approximately 150 to 360 degrees Celsius. One commonly used form is fuel oil number 2. Diesel fuel also includes any non-distillate fuel with comparable physical and chemical properties (e.g. biodiesel) that is suitable for use in compression ignition engines.

Digester gas means any gaseous by-product of wastewater treatment typically formed through the anaerobic decomposition of organic waste materials and composed principally of methane and CO₂.

Dual-fuel engine means any stationary RICE in which a liquid fuel (typically diesel fuel) is used for compression ignition and gaseous fuel (typically natural gas) is used as the primary fuel.

Emergency stationary RICE means any stationary internal combustion engine whose operation is limited to emergency situations and required testing and maintenance. Examples include stationary RICE used to produce power for critical networks or equipment (including power supplied to portions of a facility) when electric power from the local utility (or the normal power source, if the facility runs on its own power production) is interrupted, or stationary RICE used to pump water in the case of fire or flood, etc. Stationary RICE used for peak shaving are not considered emergency stationary RICE. Stationary RICE used to supply power to an electric grid or that supply non-emergency power as part of a financial arrangement with another entity are not considered to be emergency engines, except as permitted under §63.6640(f). All emergency stationary RICE must comply with the requirements specified in §63.6640(f) in order to be considered emergency stationary RICE. If the engine does not comply with the requirements specified in §63.6640(f), then it is not considered to be an emergency stationary RICE under this subpart.

Engine startup means the time from initial start until applied load and engine and associated equipment reaches steady state or normal operation. For stationary engine with catalytic controls, engine startup means the time from initial start until applied load and engine and associated equipment, including the catalyst, reaches steady state or normal operation.

Four-stroke engine means any type of engine which completes the power cycle in two crankshaft revolutions, with intake and compression strokes in the first revolution and power and exhaust strokes in the second revolution.

Gaseous fuel means a material used for combustion which is in the gaseous state at standard atmospheric temperature and pressure conditions.

Gasoline means any fuel sold in any State for use in motor vehicles and motor vehicle engines, or nonroad or stationary engines, and commonly or commercially known or sold as gasoline.

Glycol dehydration unit means a device in which a liquid glycol (including, but not limited to, ethylene glycol, diethylene glycol, or triethylene glycol) absorbent directly contacts a natural gas stream and absorbs water in a contact tower or absorption column (absorber). The glycol contacts and absorbs water vapor and other gas stream constituents from the natural gas and becomes "rich" glycol. This glycol is then regenerated in the glycol dehydration unit reboiler. The "lean" glycol is then recycled.

Hazardous air pollutants (HAP) means any air pollutants listed in or pursuant to section 112(b) of the CAA.

Institutional emergency stationary RICE means an emergency stationary RICE used in institutional establishments such as medical centers, nursing homes, research centers, institutions of higher education, correctional facilities, elementary and secondary schools, libraries, religious establishments, police stations, and fire stations.

ISO standard day conditions means 288 degrees Kelvin (15 degrees Celsius), 60 percent relative humidity and 101.3 kilopascals pressure.

Landfill gas means a gaseous by-product of the land application of municipal refuse typically formed through the anaerobic decomposition of waste materials and composed principally of methane and CO₂.

Lean burn engine means any two-stroke or four-stroke spark ignited engine that does not meet the definition of a rich burn engine.

Limited use stationary RICE means any stationary RICE that operates less than 100 hours per year.

Liquefied petroleum gas means any liquefied hydrocarbon gas obtained as a by-product in petroleum refining of natural gas production.

Liquid fuel means any fuel in liquid form at standard temperature and pressure, including but not limited to diesel, residual/crude oil, kerosene/naphtha (jet fuel), and gasoline.

Major Source, as used in this subpart, shall have the same meaning as in §63.2, except that:

- (1) Emissions from any oil or gas exploration or production well (with its associated equipment (as defined in this section)) and emissions from any pipeline compressor station or pump station shall not be aggregated with emissions from other similar units, to determine whether such emission points or stations are major sources, even when emission points are in a contiguous area or under common control;
- (2) For oil and gas production facilities, emissions from processes, operations, or equipment that are not part of the same oil and gas production facility, as defined in §63.1271 of subpart HHH of this part, shall not be aggregated;

SCHOTT Gemtron Corporation Vincennes, Indiana Permit Reviewer: Janet Mobley Page 20 of 45 M083-30150-00012

- (3) For production field facilities, only HAP emissions from glycol dehydration units, storage vessel with the potential for flash emissions, combustion turbines and reciprocating internal combustion engines shall be aggregated for a major source determination; and
- (4) Emissions from processes, operations, and equipment that are not part of the same natural gas transmission and storage facility, as defined in §63.1271 of subpart HHH of this part, shall not be aggregated.

Malfunction means any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner which causes, or has the potential to cause, the emission limitations in an applicable standard to be exceeded. Failures that are caused in part by poor maintenance or careless operation are not malfunctions.

Natural gas means a naturally occurring mixture of hydrocarbon and non-hydrocarbon gases found in geologic formations beneath the Earth's surface, of which the principal constituent is methane. Natural gas may be field or pipeline quality.

Non-selective catalytic reduction (NSCR) means an add-on catalytic nitrogen oxides (NO_X) control device for rich burn engines that, in a two-step reaction, promotes the conversion of excess oxygen, NO_X , CO, and volatile organic compounds (VOC) into CO_2 , nitrogen, and water.

Oil and gas production facility as used in this subpart means any grouping of equipment where hydrocarbon liquids are processed, upgraded (i.e., remove impurities or other constituents to meet contract specifications), or stored prior to the point of custody transfer; or where natural gas is processed, upgraded, or stored prior to entering the natural gas transmission and storage source category. For purposes of a major source determination, facility (including a building, structure, or installation) means oil and natural gas production and processing equipment that is located within the boundaries of an individual surface site as defined in this section. Equipment that is part of a facility will typically be located within close proximity to other equipment located at the same facility. Pieces of production equipment or groupings of equipment located on different oil and gas leases, mineral fee tracts, lease tracts, subsurface or surface unit areas, surface fee tracts, surface lease tracts, or separate surface sites, whether or not connected by a road, waterway, power line or pipeline, shall not be considered part of the same facility. Examples of facilities in the oil and natural gas production source category include, but are not limited to, well sites, satellite tank batteries, central tank batteries, a compressor station that transports natural gas to a natural gas processing plant, and natural gas processing plants.

Oxidation catalyst means an add-on catalytic control device that controls CO and VOC by oxidation.

Peaking unit or engine means any standby engine intended for use during periods of high demand that are not emergencies.

Percent load means the fractional power of an engine compared to its maximum manufacturer's design capacity at engine site conditions. Percent load may range between 0 percent to above 100 percent.

Potential to emit means the maximum capacity of a stationary source to emit a pollutant under its physical and operational design. Any physical or operational limitation on the capacity of the stationary source to emit a pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation or the effect it would have on emissions is federally enforceable. For oil and natural gas production facilities subject to subpart HH of this part, the potential to emit provisions in §63.760(a) may be used. For natural gas transmission and storage facilities subject to subpart HHH of this part, the maximum annual facility gas throughput for storage facilities may be determined according to §63.1270(a)(1) and the maximum annual throughput for transmission facilities may be determined according to §63.1270(a)(2).

Production field facility means those oil and gas production facilities located prior to the point of custody transfer.

Production well means any hole drilled in the earth from which crude oil, condensate, or field natural gas is extracted.

Propane means a colorless gas derived from petroleum and natural gas, with the molecular structure C₃H₈.

Residential emergency stationary RICE means an emergency stationary RICE used in residential establishments such as homes or apartment buildings.

Responsible official means responsible official as defined in 40 CFR 70.2.

Rich burn engine means any four-stroke spark ignited engine where the manufacturer's recommended operating air/fuel ratio divided by the stoichiometric air/fuel ratio at full load conditions is less than or equal to 1.1. Engines originally manufactured as rich burn engines, but modified prior to December 19, 2002 with passive emission control technology for NO_x (such as pre-combustion chambers) will be considered lean burn engines. Also, existing engines where there are no manufacturer's recommendations regarding air/fuel ratio will be considered a rich burn engine if the excess oxygen content of the exhaust at full load conditions is less than or equal to 2 percent.

Site-rated HP means the maximum manufacturer's design capacity at engine site conditions.

Spark ignition means relating to either: A gasoline-fueled engine; or any other type of engine a spark plug (or other sparking device) and with operating characteristics significantly similar to the theoretical Otto combustion cycle. Spark ignition engines usually use a throttle to regulate intake air flow to control power during normal operation. Dual-fuel engines in which a liquid fuel (typically diesel fuel) is used for Cl and gaseous fuel (typically natural gas) is used as the primary fuel at an annual average ratio of less than 2 parts diesel fuel to 100 parts total fuel on an energy equivalent basis are spark ignition engines.

Stationary reciprocating internal combustion engine (RICE) means any reciprocating internal combustion engine which uses reciprocating motion to convert heat energy into mechanical work and which is not mobile. Stationary RICE differ from mobile RICE in that a stationary RICE is not a non-road engine as defined at 40 CFR 1068.30, and is not used to propel a motor vehicle or a vehicle used solely for competition.

Stationary RICE test cell/stand means an engine test cell/stand, as defined in subpart PPPPP of this part, that tests stationary RICE.

Stoichiometric means the theoretical air-to-fuel ratio required for complete combustion.

Storage vessel with the potential for flash emissions means any storage vessel that contains a hydrocarbon liquid with a stock tank gas-to-oil ratio equal to or greater than 0.31 cubic meters per liter and an American Petroleum Institute gravity equal to or greater than 40 degrees and an actual annual average hydrocarbon liquid throughput equal to or greater than 79,500 liters per day. Flash emissions occur when dissolved hydrocarbons in the fluid evolve from solution when the fluid pressure is reduced.

Subpart means 40 CFR part 63, subpart ZZZZ.

Surface site means any combination of one or more graded pad sites, gravel pad sites, foundations, platforms, or the immediate physical location upon which equipment is physically affixed.

Two-stroke engine means a type of engine which completes the power cycle in single crankshaft revolution by combining the intake and compression operations into one stroke and the power and exhaust operations into a second stroke. This system requires auxiliary scavenging and inherently runs lean of stoichiometric.

[69 FR 33506, June 15, 2004, as amended at 71 FR 20467, Apr. 20, 2006; 73 FR 3607, Jan. 18, 2008; 75 FR 9679, Mar. 3, 2010; 75 FR 51592, Aug. 20, 2010]

Table 1ato Subpart ZZZZ of Part 63— Emission Limitations for Existing, New, and Reconstructed Spark Ignition, 4SRB Stationary RICE >500 HP Located at a Major Source of HAP Emissions

As stated in §§63.6600 and 63.6640, you must comply with the following emission limitations at 100 percent load plus or minus 10 percent for existing, new and reconstructed 4SRB stationary RICE >500 HP located at a major source of HAP emissions:

For each	You must meet the following emission limitation, except during periods of startup	During periods of startup you must
RICE	percent or more. If you commenced construction or reconstruction between December 19, 2002 and June 15, 2004, you	Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply. ¹
	b. Limit the concentration of formaldehyde in the stationary RICE exhaust to 350 ppbvd or less at 15 percent O ₂	

¹Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.6(g) for alternative work practices.

[75 FR 9679, Mar. 3, 2010, as amended at 75 FR 51592, Aug. 20, 2010]

Table 1bto Subpart ZZZZ of Part 63—Operating Limitations for Existing, New, and Reconstructed Spark Ignition 4SRB Stationary RICE >500 HP Located at a Major Source of HAP Emissions and Existing Spark Ignition 4SRB Stationary RICE >500 HP Located at an Area Source of HAP Emissions

Link to an amendment published at 76 FR 12867, March 9, 2011.

As stated in §§63.6600, 63.6630 and 63.6640, you must comply with the following operating limitations for existing, new and reconstructed 4SRB stationary RICE >500 HP located at a major source of HAP emissions and existing 4SRB stationary RICE >500 HP located at an area source of HAP emissions that operate more than 24 hours per calendar year:

For each	You must meet the following operating limitation
1. 4SRB stationary RICE complying with the requirement to reduce formaldehyde emissions by 76 percent or more (or by 75 percent or more, if applicable) and using NSCR; or	a. maintain your catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst measured during the initial performance test and
4SRB stationary RICE complying with the requirement to limit the concentration of formaldehyde in the stationary RICE exhaust to 350 ppbvd or less at 15 percent O₂and using NSCR; or	b. maintain the termperature of your stationary RICE exhaust so the catalyst inlet temperature is greater than or equal to 750 °F and less than or equal to 1250 °F.
4SRB stationary RICE complying with the requirement to limit the concentration of formaldehyde in the stationary RICE exhaust to 2.7 ppmvd or less at 15 percent O₂and using NSCR.	
2. 4SRB stationary RICE complying with the requirement to reduce formaldehyde emissions by 76 percent or more (or by 75 percent or more, if applicable) and not using NSCR; or	Comply with any operating limitations approved by the Administrator.
4SRB stationary RICE complying with the requirement to limit the concentration of formaldehyde in the stationary RICE exhaust to 350 ppbvd or less at 15 percent O₂and not using NSCR; or	
4SRB stationary RICE complying with the requirement to limit the concentration of formaldehyde in the stationary RICE exhaust to 2.7 ppmvd or less at 15 percent O ₂ and using NSCR.	

[75 FR 51592, Aug. 20, 2010]

Table 2ato Subpart ZZZZ of Part 63—Emission Limitations for New and Reconstructed 2SLB and Compression Ignition Stationary RICE >500 HP and New and Reconstructed 4SLB Stationary RICE ≥250 HP Located at a Major Source of HAP Emissions

As stated in §§63.6600 and 63.6640, you must comply with the following emission limitations for new and reconstructed lean burn and new and reconstructed compression ignition stationary RICE at 100 percent load plus or minus 10 percent:

For each .	You must meet the following emission limitation, except during periods of startup	During periods of startup you must
stationary	b. Limit concentration of formaldehyde in the	and minimize the engine's startup time at
RICE	stationary RICE exhaust to 12 ppmvd or less at 15	startup to a period needed for

	percent O ₂ . If you commenced construction or reconstruction between December 19, 2002 and June 15, 2004, you may limit concentration of formaldehyde to 17 ppmvd or less at 15 percent O ₂ until June 15, 2007	appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply. ¹
2. 4SLB stationary RICE	a. Reduce CO emissions by 93 percent or more; or	
	b. Limit concentration of formaldehyde in the stationary RICE exhaust to 14 ppmvd or less at 15 percent O ₂	
3. CI stationary RICE	a. Reduce CO emissions by 70 percent or more; or	
	b. Limit concentration of formaldehyde in the stationary RICE exhaust to 580 ppbvd or less at 15 percent O ₂	

¹Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.6(g) for alternative work practices.

[75 FR 9680, Mar. 3, 2010]

Table 2bto Subpart ZZZZ of Part 63— Operating Limitations for New and Reconstructed 2SLB and Compression Ignition Stationary RICE >500 HP Located at a Major Source of HAP Emissions, New and Reconstructed 4SLB Stationary RICE ≥250 HP Located at a Major Source of HAP Emissions, Existing Compression Ignition Stationary RICE >500 HP, and Existing 4SLB Stationary RICE >500 HP Located at an Area Source of HAP Emissions

Link to an amendment published at 76 FR 12867, March 9, 2011.

As stated in §§63.6600, 63.6601, 63.6630, and 63.6640, you must comply with the following operating limitations for new and reconstructed 2SLB and compression ignition stationary RICE located at a major source of HAP emissions; new and reconstructed 4SLB stationary RICE≥250 HP located at a major source of HAP emissions; existing compression ignition stationary RICE >500 HP; and existing 4SLB stationary RICE >500 HP located at an area source of HAP emissions that operate more than 24 hours per calendar year:

For each	You must meet the following operating limitation
1. 2SLB and 4SLB stationary RICE and CI stationary RICE complying with the requirement to reduce CO emissions and using an oxidation catalyst; or 2SLB and 4SLB stationary RICE and CI stationary RICE complying with the requirement to limit the concentration of formaldehyde in the stationary RICE exhaust and using an oxidation catalyst; or 4SLB stationary RICE and CI stationary RICE complying with the requirement to limit the concentration of CO in the stationary RICE exhaust and using an oxidation catalyst	a. maintain your catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst that was measured during the initial performance test; and b. maintain the temperature of your stationary RICE exhaust so that the catalyst inlet temperature is greater than or equal to 450 °F and less than or equal to 1350 °F.
2. 2SLB and 4SLB stationary RICE and CI stationary RICE complying with the requirement to reduce CO emissions and not using an oxidation catalyst; or 2SLB	Comply with any operating limitations approved by the Administrator.

and 4SLB stationary RICE and CI stationary RICE complying with the requirement to limit the concentration of formaldehyde in the stationary RICE exhaust and not using an oxidation catalyst; or 4SLB stationary RICE and CI stationary RICE complying with the requirement to limit the concentration of CO in the stationary RICE exhaust and not using an oxidation catalyst

[75 FR 51593, Aug. 20, 2010]

Table 2cto Subpart ZZZZ of Part 63—Requirements for Existing Compression Ignition Stationary RICE Located at a Major Source of HAP Emissions and Existing Spark Ignition Stationary RICE ≤500 HP Located at a Major Source of HAP Emissions

As stated in §§63.6600, 63.6602, and 63.6640, you must comply with the following requirements for existing compression ignition stationary RICE located at a major source of HAP emissions and existing spark ignition stationary RICE≤500 HP located at a major source of H AP emissions:

For each	You must meet the following requirement, except during periods of startup	During periods of startup you must
Emergency stationary CI RICE and black start stationary CI RICE. The stationary CI RICE.	500 hours of operation or annually, whichever comes first; ² b. Inspect air cleaner every	Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply. ³
2. Non-Emergency, non- black start stationary CI RICE <100 HP	a. Change oil and filter every 1,000 hours of operation or annually, whichever comes first; ²	
	b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first;	
	c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. ³	
3. Non-Emergency, non- black start CI stationary RICE 100≤HP≤300 HP	Limit concentration of CO in the stationary RICE exhaust to 230 ppmvd or less at 15	

¹Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.8(g) for a different temperature range.

percent O ₂	
a. Limit concentration of CO in the stationary RICE exhaust to 49 ppmvd or less at 15 percent O ₂ ; or	
b. Reduce CO emissions by 70 percent or more.	
a. Limit concentration of CO in the stationary RICE exhaust to 23 ppmvd or less at 15 percent O ₂ ; or	
b. Reduce CO emissions by 70 percent or more.	
a. Change oil and filter every 500 hours of operation or annually, whichever comes first; ²	
b. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first;	
c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. ³	
a. Change oil and filter every 1,440 hours of operation or annually, whichever comes first; ²	
b. Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first;	
c. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary. ³	
a. Change oil and filter every 4,320 hours of operation or annually, whichever comes first; ²	
b. Inspect spark plugs every 4,320 hours of operation or annually, whichever comes first;	
	a. Limit concentration of CO in the stationary RICE exhaust to 49 ppmvd or less at 15 percent O ₂ ; or b. Reduce CO emissions by 70 percent or more. a. Limit concentration of CO in the stationary RICE exhaust to 23 ppmvd or less at 15 percent O ₂ ; or b. Reduce CO emissions by 70 percent or more. a. Change oil and filter every 500 hours of operation or annually, whichever comes first; ² b. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first; c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. ³ a. Change oil and filter every 1,440 hours of operation or annually, whichever comes first; ² b. Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first; c. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first; c. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first; a. Change oil and filter every 4,320 hours of operation or annually, whichever comes first; ² b. Inspect spark plugs every 4,320 hours of operation or annually, whichever comes first; ² b. Inspect spark plugs every 4,320 hours of operation or annually, whichever comes first; ²

	c. Inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first, and replace as necessary. ³	
9. Non-emergency, non- black start 2SLB stationary RICE 100≤HP≤500	Limit concentration of CO in the stationary RICE exhaust to 225 ppmvd or less at 15 percent O ₂	
10. Non-emergency, non- black start 4SLB stationary RICE 100≤HP≤500	Limit concentration of CO in the stationary RICE exhaust to 47 ppmvd or less at 15 percent O ₂	
11. Non-emergency, non- black start 4SRB stationary RICE 100≤HP≤500	Limit concentration of formaldehyde in the stationary RICE exhaust to 10.3 ppmvd or less at 15 percent O ₂	
12. Non-emergency, non- black start landfill or digester gas-fired stationary RICE 100≤HP≤500	Limit concentration of CO in the stationary RICE exhaust to 177 ppmvd or less at 15 percent O ₂	

¹If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the work practice requirements on the schedule required in Table 2c of this subpart, or if performing the work practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the work practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The work practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. Sources must report any failure to perform the work practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable.

[75 FR 51593, Aug. 20, 2010]

Table 2dto Subpart ZZZZ of Part 63— Requirements for Existing Stationary RICE Located at Area Sources of HAP Emissions

As stated in §§63.6603 and 63.6640, you must comply with the following requirements for existing stationary RICE located at area sources of HAP emissions:

For each	You must meet the following requirement, except during periods of startup	During periods of startup you must
stationary RICE ≤300 HP	every 1,000 hours of operation or annually, whichever comes first; ¹	Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the

²Sources have the option to utilize an oil analysis program as described in §63.6625(i) in order to extend the specified oil change requirement in Table 2c of this subpart.

³Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.6(g) for alternative work practices.

		non-startup emission limitations apply.
	b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.	
2. Non-Emergency, non-black start CI stationary RICE 300 <hp≤500< td=""><td>a. Limit concentration of CO in the stationary RICE exhaust to 49 ppmvd at 15 percent O₂; or</td><td></td></hp≤500<>	a. Limit concentration of CO in the stationary RICE exhaust to 49 ppmvd at 15 percent O ₂ ; or	
	b. Reduce CO emissions by 70 percent or more.	
3. Non-Emergency, non-black start CI stationary RICE >500 HP	a. Limit concentration of CO in the stationary RICE exhaust to 23 ppmvd at 15 percent O ₂ ; or	
	b. Reduce CO emissions by 70 percent or more.	
4. Emergency stationary CI RICE and black start stationary CI RICE. ²	a. Change oil and filter every 500 hours of operation or annually, whichever comes first; ¹	
	b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and	
	c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.	
5. Emergency stationary SI RICE; black start stationary SI RICE; non-emergency, non-black start 4SLB stationary RICE >500 HP that operate 24 hours or less per calendar year; non-emergency, non-black start 4SRB stationary RICE >500 HP that operate 24 hours or less per calendar year. ²	a. Change oil and filter every 500 hours of operation or annually, whichever comes first; ¹ b. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first;	

	and c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.	
Non-emergency, non-black start 2SLB stationary RICE	a. Change oil and filter every 4,320 hours of operation or annually, whichever comes first; ¹	
	b. Inspect spark plugs every 4,320 hours of operation or annually, whichever comes first; and	
	c. Inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first, and replace as necessary.	
7. Non-emergency, non-black start 4SLB stationary RICE ≤500 HP	a. Change oil and filter every 1,440 hours of operation or annually, whichever comes first; ¹	
	b. Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first; and	
	c. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary.	
8. Non-emergency, non-black start 4SLB stationary RICE >500 HP	a. Limit concentration of CO in the stationary RICE exhaust to 47 ppmvd at 15 percent O ₂ ; or	
	b. Reduce CO emissions by 93 percent or more.	
9. Non-emergency, non-black start 4SRB stationary RICE ≤500 HP	a. Change oil and filter every 1,440 hours of operation or annually, whichever comes first; ¹	

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	b. Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first; and	
	c. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary.	
10. Non-emergency, non-black start 4SRB stationary RICE >500 HP	a. Limit concentration of formaldehyde in the stationary RICE exhaust to 2.7 ppmvd at 15 percent O ₂ ; or	
	b. Reduce formaldehyde emissions by 76 percent or more.	
11. Non-emergency, non-black start landfill or digester gas-fired stationary RICE	a. Change oil and filter every 1,440 hours of operation or annually, whichever comes first; ¹	
	b. Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first; and	
	c. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary.	

¹Sources have the option to utilize an oil analysis program as described in §63.6625(i) in order to extend the specified oil change requirement in Table 2d of this subpart.

[75 FR 51595, Aug. 20, 2010]

Table 3 to Subpart ZZZZ of Part 63—Subsequent Performance Tests

As stated in §§63.6615 and 63.6620, you must comply with the following subsequent performance test requirements:

For each Complying with the You must

²If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required in Table 2d of this subpart, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. Sources must report any failure to perform the management practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable.

	1	
	requirement to	
1. New or reconstructed 2SLB stationary RICE with a brake horsepower >500 located at major sources; new or reconstructed 4SLB stationary RICE with a brake horsepower ≥250 located at major sources; and new or reconstructed CI stationary RICE with a brake horsepower >500 located at major sources		Conduct subsequent performance tests semiannually.1
2. 4SRB stationary RICE with a brake horsepower≥5,000 located at major sources	Reduce formaldehyde emissions	Conduct subsequent performance tests semiannually. ¹
3. Stationary RICE with a brake horsepower >500 located at major sources and new or reconstructed 4SLB stationary RICE with a brake horsepower 250≤HP≤500 located at major sources	Limit the concentration of formaldehyde in the stationary RICE exhaust	Conduct subsequent performance tests semiannually.1
4. Existing non-emergency, non-black start CI stationary RICE with a brake horsepower >500 that are not limited use stationary RICE; existing non-emergency, non-black start 4SLB and 4SRB stationary RICE located at an area source of HAP emissions with a brake horsepower >500 that are operated more than 24 hours per calendar year that are not limited use stationary RICE	Limit or reduce CO or formaldehyde emissions	Conduct subsequent performance tests every 8,760 hrs. or 3 years, whichever comes first.
5. Existing non-emergency, non-black start CI stationary RICE with a brake horsepower >500 that are limited use stationary RICE; existing non-emergency, non-black start 4SLB and 4SRB stationary RICE located at an area source of HAP emissions with a brake horsepower >500 that are operated more than 24 hours per calendar year and are limited use stationary RICE	emissions	Conduct subsequent performance tests every 8,760 hrs. or 5 years, whichever comes first.

¹After you have demonstrated compliance for two consecutive tests, you may reduce the frequency of subsequent performance tests to annually. If the results of any subsequent annual performance test indicate the stationary RICE is not in compliance with the CO or formaldehyde emission limitation, or you deviate from any of your operating limitations, you must resume semiannual performance tests.

[75 FR 51596, Aug. 20, 2010]

Table 4 to Subpart ZZZZ of Part 63—Requirements for Performance Tests

As stated in §§63.6610, 63.6611, 63.6612, 63.6620, and 63.6640, you must comply with the following requirements for performance tests for stationary RICE:

	Complying with the requirement to	You must	Using	According to the following requirements
1. 2SLB, 4SLB, and CI stationary RICE	emissions	i. Measure the O ₂ at the inlet and outlet of the control device; and	Ò ₂ analyzer	(a) Using ASTM D6522–00 (2005) ^a (incorporated by reference, see §63.14). Measurements to determine O₂must be made at the same time as the

				measurements for CO concentration.
		ii. Measure the CO at the inlet and the outlet of the control device	(1) Portable CO and O₂analyzer	(a) Using ASTM D6522–00 (2005) ^{ab} (incorporated by reference, see §63.14) or Method 10 of 40 CFR appendix A. The CO concentration must be at 15 percent O ₂ , dry basis.
2. 4SRB stationary RICE	a. Reduce formaldehyde emissions	i. Select the sampling port location and the number of traverse points; and	(1) Method 1 or 1A of 40 CFR part 60, appendix A §63.7(d)(1)(i)	(a) Sampling sites must be located at the inlet and outlet of the control device.
		inlet and outlet of the control device;	(1) Method 3 or 3A or 3B of 40 CFR part 60, appendix A, or ASTM Method D6522–00m (2005)	(a) Measurements to determine O ₂ concentration must be made at the same time as the measurements for formaldehyde concentration.
		iii. Measure moisture content at the inlet and outlet of the control device; and	(1) Method 4 of 40 CFR part 60, appendix A, or Test Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348–03	(a) Measurements to determine moisture content must be made at the same time and location as the measurements for formaldehyde concentration.
			40 CFR part 63, appendix A; or ASTM D6348–03, provided in ASTM D6348–03 Annex	(a) Formaldehyde concentration must be at 15 percent O ₂ , dry basis. Results of this test consist of the average of the three 1-hour or longer runs.
3. Stationary RICE	CO in the	i. Select the sampling port location and the number of traverse points; and	(1) Method 1 or 1A of 40 CFR part 60, appendix A §63.7(d)(1)(i)	(a) If using a control device, the sampling site must be located at the outlet of the control device.
			(1) Method 3 or 3A or 3B of 40 CFR part 60, appendix A, or ASTM Method D6522–00 (2005)	(a) Measurements to determine O₂concentration must be made at the same time and location as the measurements for formaldehyde concentration.
		iii. Measure moisture content of	(1) Method 4 of 40 CFR part 60, appendix A, or	(a) Measurements to determine moisture content

SCHOTT Gemtron Corporation Page 32 of 45 M083-30150-00012

Permit Reviewer: Janet Mobley

Vincennes, Indiana

	exhaust at the	CFR part 63, appendix A, or ASTM D 6348–03	must be made at the same time and location as the measurements for formaldehyde concentration.
	formaldehyde at the exhaust of the stationary RICE; or	appendix A; or ASTM D6348–03, cprovided in ASTM D6348–03 Annex	concentration must be at 15 percent O ₂ , dry basis. Results of this test consist of the average of the three 1-hour or longer runs.
	the exhaust of the stationary RICE	part 60, appendix A, ASTM Method D6522–00	consist of the average of the

^aYou may also use Methods 3A and 10 as options to ASTM-D6522-00 (2005). You may obtain a copy of ASTM-D6522-00 (2005) from at least one of the following addresses: American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428–2959, or University Microfilms International, 300 North Zeeb Road, Ann Arbor, MI 48106. ASTM–D6522–00 (2005) may be used to test both CI and SI stationary RICE.

[75 FR 51597, Aug. 20, 2010]

Table 5 to Subpart ZZZZ of Part 63—Initial Compliance With Emission Limitations and Operating Limitations

Link to an amendment published at 76 FR 12867, March 9, 2011.

As stated in §§63.6612, 63.6625 and 63.6630, you must initially comply with the emission and operating limitations as required by the following:

For each	Complying with the requirement to	You have demonstrated initial compliance if
1. New or reconstructed non-emergency 2SLB stationary RICE >500 HP located at a major source of HAP, new or reconstructed non-emergency 4SLB stationary RICE ≥250 HP located at a major source of HAP, non-emergency stationary CI RICE >500 HP located at a major source of HAP, existing non-emergency stationary CI RICE >500 HP located at an area source of HAP, and existing non-emergency 4SLB stationary	emissions and using oxidation catalyst, and using a CPMS	i. The average reduction of emissions of CO determined from the initial performance test achieves the required CO percent reduction; and ii. You have installed a CPMS to continuously monitor catalyst inlet temperature according to the requirements in §63.6625(b); and iii. You have recorded the catalyst pressure drop and catalyst inlet temperature during the initial

^bYou may also use Method 320 of 40 CFR part 63, appendix A, or ASTM D6348–03.

^cYou may obtain a copy of ASTM-D6348-03 from at least one of the following addresses: American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428–2959, or University Microfilms International, 300 North Zeeb Road, Ann Arbor, MI 48106.

RICE >500 HP located at an area source of HAP that are operated more than 24 hours per calendar year		performance test.
2. New or reconstructed non-emergency 2SLB stationary RICE >500 HP located at a major source of HAP, new or reconstructed non-emergency 4SLB stationary RICE ≥250 HP located at a major source of HAP, non-emergency stationary CI RICE >500 HP located at a major source of HAP, existing non-emergency stationary CI RICE >500 HP located at an area source of HAP, and existing non-emergency 4SLB stationary RICE >500 HP located at an area source of HAP that are operated more than 24 hours per calendar year	a. Reduce CO emissions and not using oxidation catalyst	i. The average reduction of emissions of CO determined from the initial performance test achieves the required CO percent reduction; and ii. You have installed a CPMS to continuously monitor operating parameters approved by the Administrator (if any) according to the requirements in §63.6625(b); and iii. You have recorded the approved operating parameters (if any) during the initial performance test.
3. New or reconstructed non-emergency 2SLB stationary RICE >500 HP located at a major source of HAP, new or reconstructed non-emergency 4SLB stationary RICE ≥250 HP located at a major source of HAP, non-emergency stationary CI RICE >500 HP located at a major source of HAP, existing non-emergency stationary CI RICE >500 HP located at an area source of HAP, and existing non-emergency 4SLB stationary RICE >500 HP located at an area source of HAP that are operated more than 24 hours per calendar year	emissions, and using a CEMS	i. You have installed a CEMS to continuously monitor CO and either O2 or CO2 at both the inlet and outlet of the oxidation catalyst according to the requirements in §63.6625(a); and ii. You have conducted a performance evaluation of your CEMS using PS 3 and 4A of 40 CFR part 60, appendix B; and iii. The average reduction of CO calculated using §63.6620 equals or exceeds the required percent reduction. The initial test comprises the first 4-hour period after successful validation of the CEMS. Compliance is based on the average percent reduction achieved during the 4-hour period.
4. Non-emergency 4SRB stationary RICE >500 HP located at a major source of HAP, and existing non-emergency 4SRB stationary RICE >500 HP located at an area source of HAP that are operated more than 24 hours per calendar year	formaldehyde emissions and using NSCR	i. The average reduction of emissions of formaldehyde determined from the initial performance test is equal to or greater than the required formaldehyde percent reduction; and ii. You have installed a CPMS to continuously monitor catalyst inlet temperature according to the requirements in §63.6625(b); and iii. You have recorded the catalyst pressure drop and catalyst inlet temperature during the initial performance test.
5. Non-emergency 4SRB stationary RICE >500 HP located at a major source of HAP, and existing non-emergency 4SRB stationary RICE >500 HP located at an	formaldehyde	i. The average reduction of emissions of formaldehyde determined from the initial performance test is equal to or greater than the required

area source of HAP that are operated more than 24 hours per calendar year		formaldehyde percent reduction; and ii. You have installed a CPMS to continuously monitor operating parameters approved by the Administrator (if any) according to the requirements in §63.6625(b); and iii. You have recorded the approved operating parameters (if any) during the initial performance test.
6. New or reconstructed non-emergency stationary RICE >500 HP located at a major source of HAP, new or reconstructed non-emergency 4SLB stationary RICE 250≤HP≤500 located at a major source of HAP, and existing non-emergency 4SRB stationary RICE >500 HP	a. Limit the concentration of formaldehyde in the stationary RICE exhaust and using oxidation catalyst or NSCR	i. The average formaldehyde concentration, corrected to 15 percent O2, dry basis, from the three test runs is less than or equal to the formaldehyde emission limitation; and ii. You have installed a CPMS to continuously monitor catalyst inlet temperature according to the requirements in §63.6625(b); and iii. You have recorded the catalyst pressure drop and catalyst inlet temperature during the initial performance test.
7. New or reconstructed non-emergency stationary RICE >500 HP located at a major source of HAP, new or reconstructed non-emergency 4SLB stationary RICE 250≤HP≤500 located at a major source of HAP, and existing non-emergency 4SRB stationary RICE >500 HP	stationary RICE	i. The average formaldehyde concentration, corrected to 15 percent O2, dry basis, from the three test runs is less than or equal to the formaldehyde emission limitation; and ii. You have installed a CPMS to continuously monitor operating parameters approved by the Administrator (if any) according to the requirements in §63.6625(b); and iii. You have recorded the approved operating parameters (if any) during the initial performance test.
8. Existing non-emergency stationary RICE 100≤HP≤500 located at a major source of HAP, and existing non-emergency stationary CI RICE 300 <hp≤500 an="" area="" at="" hap<="" located="" of="" source="" td=""><td>a. Reduce CO or formaldehyde emissions</td><td>i. The average reduction of emissions of CO or formaldehyde, as applicable determined from the initial performance test is equal to or greater than the required CO or formaldehyde, as applicable, percent reduction.</td></hp≤500>	a. Reduce CO or formaldehyde emissions	i. The average reduction of emissions of CO or formaldehyde, as applicable determined from the initial performance test is equal to or greater than the required CO or formaldehyde, as applicable, percent reduction.
9. Existing non-emergency stationary RICE 100≤HP≤500 located at a major source of HAP, and existing non-emergency stationary CI RICE 300 <hp≤500 an="" area="" at="" hap<="" located="" of="" source="" td=""><td>concentration of formaldehyde or CO</td><td>i. The average formaldehyde or CO concentration, as applicable, corrected to 15 percent O2, dry basis, from the three test runs is less than or equal to the formaldehyde or CO emission limitation, as applicable.</td></hp≤500>	concentration of formaldehyde or CO	i. The average formaldehyde or CO concentration, as applicable, corrected to 15 percent O2, dry basis, from the three test runs is less than or equal to the formaldehyde or CO emission limitation, as applicable.

[75 FR 51598, Aug. 20, 2010]

Link to an amendment published at 76 FR 12870, March 9, 2011.

As stated in §63.6640, you must continuously comply with the emissions and operating limitations and work or management practices as required by the following:

For each	Complying with the requirement to	You must demonstrate continuous compliance by
1. New or reconstructed non-emergency 2SLB stationary RICE >500 HP located at a major source of HAP, new or reconstructed non-emergency 4SLB stationary RICE ≥250 HP located at a major source of HAP, and new or reconstructed non-emergency CI stationary RICE >500 HP located at a major source of HAP	a. Reduce CO emissions and using an oxidation catalyst, and using a CPMS	i. Conducting semiannual performance tests for CO to demonstrate that the required CO percent reduction is achieved; and ii. Collecting the catalyst inlet temperature data according to §63.6625(b); and iii. Reducing these data to 4-hour rolling averages; and iv. Maintaining the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature; and
		v. Measuring the pressure drop across the catalyst once per month and demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test.
2. New or reconstructed non-emergency 2SLB stationary RICE >500 HP located at a major source of HAP, new or reconstructed non-emergency 4SLB stationary RICE ≥250 HP located at a major source of HAP, and new or reconstructed non-emergency CI stationary RICE >500 HP located at a major source of HAP	a. Reduce CO emissions and not using an oxidation catalyst, and using a CPMS	i. Conducting semiannual performance tests for CO to demonstrate that the required CO percent reduction is achieved; and ii. Collecting the approved operating parameter (if any) data according to §63.6625(b); and iii. Reducing these data to 4-hour rolling averages; and iv. Maintaining the 4-hour rolling averages within the operating limitations for the operating parameters established during the performance test.
3. New or reconstructed non-emergency 2SLB stationary RICE >500 HP located at a major source of HAP, new or reconstructed non-emergency 4SLB stationary RICE ≥250 HP located at a major source of HAP, new or reconstructed non-emergency stationary CI RICE >500 HP located at a major source of HAP, existing non-emergency stationary CI RICE >500 HP, existing non-emergency 4SLB stationary RICE >500 HP located at an area source of HAP that are operated more than 24	and using a CEMS	i. Collecting the monitoring data according to §63.6625(a), reducing the measurements to 1-hour averages, calculating the percent reduction of CO emissions according to §63.6620; and ii. Demonstrating that the catalyst achieves the required percent reduction of CO emissions over the 4-hour averaging period; and iii. Conducting an annual RATA of your CEMS using PS 3 and 4A of 40 CFR part 60, appendix B, as well as

	T	T
hours per calendar year		daily and periodic data quality checks in accordance with 40 CFR part 60, appendix F, procedure 1.
4. Non-emergency 4SRB stationary RICE >500 HP located at a major source of HAP	a. Reduce formaldehyde emissions and using NSCR	i. Collecting the catalyst inlet temperature data according to §63.6625(b); and ii. Reducing these data to 4-hour rolling averages; and
		iii. Maintaining the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature; and
		iv. Measuring the pressure drop across the catalyst once per month and demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test.
5. Non-emergency 4SRB stationary RICE >500 HP located at a major source of HAP	a. Reduce formaldehyde emissions and not using NSCR	i. Collecting the approved operating parameter (if any) data according to §63.6625(b); and ii. Reducing these data to 4-hour rolling averages; and
		iii. Maintaining the 4-hour rolling averages within the operating limitations for the operating parameters established during the performance test.
6. Non-emergency 4SRB stationary RICE with a brake HP ≥5,000 located at a major source of HAP	a. Reduce formaldehyde emissions	Conducting semiannual performance tests for formaldehyde to demonstrate that the required formaldehyde percent reduction is achieved. ^a
7. New or reconstructed non-emergency stationary RICE >500 HP located at a major source of HAP and new or reconstructed non-emergency 4SLB stationary RICE 250≤HP≤500 located at a major source of HAP	a. Limit the concentration of formaldehyde in the stationary RICE exhaust and using oxidation catalyst or NSCR	i. Conducting semiannual performance tests for formaldehyde to demonstrate that your emissions remain at or below the formaldehyde concentration limit; and ii. Collecting the catalyst inlet temperature data according to §63.6625(b); and
		iii. Reducing these data to 4-hour rolling averages; and
		iv. Maintaining the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature; and
		v. Measuring the pressure drop across the catalyst once per month and

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		demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test.
8. New or reconstructed non-emergency stationary RICE >500 HP located at a major source of HAP and new or reconstructed non-emergency 4SLB stationary RICE 250≤HP≤500 located at a major source of HAP	a. Limit the concentration of formaldehyde in the stationary RICE exhaust and not using oxidation catalyst or NSCR	i. Conducting semiannual performance tests for formaldehyde to demonstrate that your emissions remain at or below the formaldehyde concentration limit; and ii. Collecting the approved operating parameter (if any) data according to §63.6625(b); and
		iii. Reducing these data to 4-hour rolling averages; and
		iv. Maintaining the 4-hour rolling averages within the operating limitations for the operating parameters established during the performance test.
9. Existing emergency and black start stationary RICE ≤500 HP located at a major source of HAP, existing nonemergency stationary RICE <100 HP located at a major source of HAP, existing emergency and black start stationary RICE located at an area source of HAP, existing non-emergency stationary CI RICE ≤300 HP located at an area source of HAP, existing nonemergency 2SLB stationary RICE located at an area source of HAP, existing nonemergency 2SLB stationary RICE located at an area source of HAP, existing nonemergency 4SLB and 4SRB stationary RICE ≤500 HP located at an area source of HAP, existing nonemergency 4SLB and 4SRB stationary RICE >500 HP located at an area source of HAP, existing nonemergency 4SLB and 4SRB stationary RICE >500 HP located at an area source of HAP that operate 24 hours or less per calendar year	a. Work or Management practices	i. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or ii. Develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
10. Existing stationary CI RICE >500 HP that are not limited use stationary RICE, and existing 4SLB and 4SRB stationary RICE >500 HP located at an area source of HAP that operate more than 24 hours per calendar year and are not limited use stationary RICE	formaldehyde emissions, or limit the concentration	the required CO or formaldehyde, as appropriate, percent reduction is achieved or that your emissions remain at or below the CO or
		formaldehyde concentration limit; and

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		temperature data according to §63.6625(b); and
		iii. Reducing these data to 4-hour rolling averages; and
		iv. Maintaining the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature; and
		v. Measuring the pressure drop across the catalyst once per month and demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test.
and existing 4SLB and 4SRB stationary RICE >500 HP located at an area source of HAP that operate more than	formaldehyde emissions, or limit the concentration	i. Conducting performance tests every 8,760 hours or 3 years, whichever comes first, for CO or formaldehyde, as appropriate, to demonstrate that the required CO or formaldehyde, as appropriate, percent reduction is achieved or that your emissions remain at or below the CO or formaldehyde concentration limit; and
		ii. Collecting the approved operating parameter (if any) data according to §63.6625(b); and
		iii. Reducing these data to 4-hour rolling averages; and
		iv. Maintaining the 4-hour rolling averages within the operating limitations for the operating parameters established during the performance test.
12. Existing limited use CI stationary RICE >500 HP and existing limited use 4SLB and 4SRB stationary RICE >500 HP located at an area source of HAP that operate more than 24 hours per calendar year	a. Reduce CO or formaldehyde emissions or limit the concentration of formaldehyde or CO in the stationary RICE exhaust, and using an oxidation catalyst or NSCR	i. Conducting performance tests every 8,760 hours or 5 years, whichever comes first, for CO or formaldehyde, as appropriate, to demonstrate that the required CO or formaldehyde, as appropriate, percent reduction is achieved or that your emissions remain at or below the CO or formaldehyde concentration limit; and
		ii. Collecting the catalyst inlet temperature data according to §63.6625(b); and
		iii. Reducing these data to 4-hour rolling averages; and
		iv. Maintaining the 4-hour rolling

		averages within the operating limitations for the catalyst inlet temperature; and
		v. Measuring the pressure drop across the catalyst once per month and demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test.
13. Existing limited use CI stationary RICE >500 HP and existing limited use 4SLB and 4SRB stationary RICE >500 HP located at an area source of HAP that operate more than 24 hours per calendar year	or limit the concentration	i. Conducting performance tests every 8,760 hours or 5 years, whichever comes first, for CO or formaldehyde, as appropriate, to demonstrate that the required CO or formaldehyde, as appropriate, percent reduction is achieved or that your emissions remain at or below the CO or formaldehyde concentration limit; and
		ii. Collecting the approved operating parameter (if any) data according to §63.6625(b); and
		iii. Reducing these data to 4-hour rolling averages; and
		iv. Maintaining the 4-hour rolling averages within the operating limitations for the operating parameters established during the performance test.

^aAfter you have demonstrated compliance for two consecutive tests, you may reduce the frequency of subsequent performance tests to annually. If the results of any subsequent annual performance test indicate the stationary RICE is not in compliance with the CO or formaldehyde emission limitation, or you deviate from any of your operating limitations, you must resume semiannual performance tests.

[75 FR 51600, Aug. 20, 2010]

Table 7 to Subpart ZZZZ of Part 63—Requirements for Reports

As stated in §63.6650, you must comply with the following requirements for reports:

For each	You must submit a	The report must contain	You must submit the report
1. Existing non-emergency, non-black start stationary RICE 100≤HP≤500 located at a major source of HAP; existing non-emergency, non-black start stationary CI RICE >500 HP located at a major source of HAP; existing non-emergency 4SRB stationary RICE >500 HP located at a major source of	report	any emission limitations or operating limitations that apply to you, a statement that there were no deviations from the emission limitations or operating limitations during the reporting period. If there were no periods during	i. Semiannually according to the requirements in §63.6650(b)(1)–(5) for engines that are not limited use stationary RICE subject to numerical emission limitations; and ii. Annually according to

HAP; existing non-emergency, non-black start stationary CI RICE >300 HP located at an area source of HAP; existing non-emergency, non-black start 4SLB and 4SRB stationary RICE >500 HP located at an area source of HAP and operated more than 24 hours per calendar year; new or reconstructed non-emergency stationary RICE >500 HP located at a major source of HAP; and new or reconstructed non-emergency 4SLB stationary RICE 250≤HP≤500 located at a major source of HAP	statement that there were not periods during which the CMS was out-of-control during the reporting period; or b. If you had a deviation from any emission limitation or operating limitation during the reporting period, the information in §63.6650(d). If there were periods during which the CMS, including CEMS and CPMS, was out-of-control, as specified in	the requirements in §63.6650(b)(6)–(9) for engines that are limited use stationary RICE subject to numerical emission limitations. i. Semiannually according to the requirements in §63.6650(b). i. Semiannually according to the requirements in §63.6650(b).
2. New or reconstructed non- emergency stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis		i. Annually, according to the requirements in §63.6650.
	b. The operating limits provided in your federally enforceable permit, and any deviations from these limits; and	i. See item 2.a.i.
	c. Any problems or errors suspected with the meters.	i. See item 2.a.i.

[75 FR 51603, Aug. 20, 2010]

Table 8 to Subpart ZZZZ of Part 63—Applicability of General Provisions to Subpart ZZZZ.

As stated in $\S 63.6665$, you must comply with the following applicable general provisions.

General provisions citation	Subject of citation	Applies to subpart	Explanation
§63.1	General applicability of the General Provisions	Yes.	
§63.2	Definitions	Yes	Additional terms defined in §63.6675.
§63.3	Units and abbreviations	Yes.	
§63.4	Prohibited activities and	Yes.	

	circumvention		
§63.5	Construction and reconstruction	Yes.	
§63.6(a)	Applicability	Yes.	
§63.6(b)(1)–(4)	Compliance dates for new and reconstructed sources	Yes.	
§63.6(b)(5)	Notification	Yes.	
§63.6(b)(6)	[Reserved]		
§63.6(b)(7)	Compliance dates for new and reconstructed area sources that become major sources	Yes.	
§63.6(c)(1)–(2)	Compliance dates for existing sources	Yes.	
§63.6(c)(3)-(4)	[Reserved]		
§63.6(c)(5)	Compliance dates for existing area sources that become major sources	Yes.	
§63.6(d)	[Reserved]		
§63.6(e)	Operation and maintenance	No.	
§63.6(f)(1)	Applicability of standards	No.	
§63.6(f)(2)	Methods for determining compliance	Yes.	
§63.6(f)(3)	Finding of compliance	Yes.	
§63.6(g)(1)–(3)	Use of alternate standard	Yes.	
§63.6(h)	Opacity and visible emission standards	No	Subpart ZZZZ does not contain opacity or visible emission standards.
§63.6(i)	Compliance extension procedures and criteria	Yes.	
§63.6(j)	Presidential compliance exemption	Yes.	
§63.7(a)(1)–(2)	Performance test dates	Yes	Subpart ZZZZ contains performance test dates at §§63.6610, 63.6611, and 63.6612.
§63.7(a)(3)	CAA section 114 authority	Yes.	
§63.7(b)(1)	Notification of performance test	Yes	Except that §63.7(b)(1) only applies as specified in §63.6645.
§63.7(b)(2)	Notification of rescheduling	Yes	Except that §63.7(b)(2) only applies as specified in §63.6645.
§63.7(c)	Quality assurance/test plan	Yes	Except that §63.7(c) only applies

			as specified in §63.6645.
§63.7(d)	Testing facilities	Yes.	
§63.7(e)(1)	Conditions for conducting performance tests	No.	Subpart ZZZZ specifies conditions for conducting performance tests at §63.6620.
§63.7(e)(2)	Conduct of performance tests and reduction of data	Yes	Subpart ZZZZ specifies test methods at §63.6620.
§63.7(e)(3)	Test run duration	Yes.	
§63.7(e)(4)	Administrator may require other testing under section 114 of the CAA	Yes.	
§63.7(f)	Alternative test method provisions	Yes.	
§63.7(g)	Performance test data analysis, recordkeeping, and reporting	Yes.	
§63.7(h)	Waiver of tests	Yes.	
§63.8(a)(1)	Applicability of monitoring requirements	Yes	Subpart ZZZZ contains specific requirements for monitoring at §63.6625.
§63.8(a)(2)	Performance specifications	Yes.	
§63.8(a)(3)	[Reserved]		
§63.8(a)(4)	Monitoring for control devices	No.	
§63.8(b)(1)	Monitoring	Yes.	
§63.8(b)(2)–(3)	Multiple effluents and multiple monitoring systems	Yes.	
§63.8(c)(1)	Monitoring system operation and maintenance	Yes.	
§63.8(c)(1)(i)	Routine and predictable SSM	Yes.	
§63.8(c)(1)(ii)	SSM not in Startup Shutdown Malfunction Plan	Yes.	
§63.8(c)(1)(iii)	Compliance with operation and maintenance requirements	Yes.	
§63.8(c)(2)-(3)	Monitoring system installation	Yes.	
§63.8(c)(4)	Continuous monitoring system (CMS) requirements	Yes	Except that subpart ZZZZ does not require Continuous Opacity Monitoring System (COMS).
§63.8(c)(5)	COMS minimum procedures	No	Subpart ZZZZ does not require COMS.
§63.8(c)(6)–(8)	CMS requirements	Yes	Except that subpart ZZZZ does not require COMS.

§63.8(d)	CMS quality control	Yes.	
§63.8(e)	CMS performance evaluation	Yes	Except for §63.8(e)(5)(ii), which applies to COMS.
		Except that §63.8(e) only applies as specified in §63.6645.	
§63.8(f)(1)–(5)	Alternative monitoring method	Yes	Except that §63.8(f)(4) only applies as specified in §63.6645.
§63.8(f)(6)	Alternative to relative accuracy test	Yes	Except that §63.8(f)(6) only applies as specified in §63.6645.
§63.8(g)	Data reduction	Yes	Except that provisions for COMS are not applicable. Averaging periods for demonstrating compliance are specified at §§63.6635 and 63.6640.
§63.9(a)	Applicability and State delegation of notification requirements	Yes.	
§63.9(b)(1)–(5)	Initial notifications	Yes	Except that §63.9(b)(3) is reserved.
		Except that §63.9(b) only applies as specified in §63.6645.	
§63.9(c)	Request for compliance extension	Yes	Except that §63.9(c) only applies as specified in §63.6645.
§63.9(d)	Notification of special compliance requirements for new sources	Yes	Except that §63.9(d) only applies as specified in §63.6645.
§63.9(e)	Notification of performance test	Yes	Except that §63.9(e) only applies as specified in §63.6645.
§63.9(f)	Notification of visible emission (VE)/opacity test	No	Subpart ZZZZ does not contain opacity or VE standards.
§63.9(g)(1)	Notification of performance evaluation	Yes	Except that §63.9(g) only applies as specified in §63.6645.
§63.9(g)(2)	Notification of use of COMS data	No	Subpart ZZZZ does not contain opacity or VE standards.
§63.9(g)(3)	Notification that criterion for alternative to RATA is exceeded	Yes	If alternative is in use.
		Except that §63.9(g) only applies as specified in §63.6645.	

§63.9(h)(1)–(6)	Notification of compliance status	Yes	Except that notifications for sources using a CEMS are due 30 days after completion of performance evaluations. §63.9(h)(4) is reserved.
			Except that §63.9(h) only applies as specified in §63.6645.
§63.9(i)	Adjustment of submittal deadlines	Yes.	
§63.9(j)	Change in previous information	Yes.	
§63.10(a)	Administrative provisions for recordkeeping/reporting	Yes.	
§63.10(b)(1)	Record retention	Yes.	
§63.10(b)(2)(i)–(v)	Records related to SSM	No.	
§63.10(b)(2)(vi)– (xi)	Records	Yes.	
§63.10(b)(2)(xii)	Record when under waiver	Yes.	
§63.10(b)(2)(xiii)	Records when using alternative to RATA	Yes	For CO standard if using RATA alternative.
§63.10(b)(2)(xiv)	Records of supporting documentation	Yes.	
§63.10(b)(3)	Records of applicability determination	Yes.	
§63.10(c)	Additional records for sources using CEMS	Yes	Except that §63.10(c)(2)–(4) and (9) are reserved.
§63.10(d)(1)	General reporting requirements	Yes.	
§63.10(d)(2)	Report of performance test results	Yes.	
§63.10(d)(3)	Reporting opacity or VE observations	No	Subpart ZZZZ does not contain opacity or VE standards.
§63.10(d)(4)	Progress reports	Yes.	
§63.10(d)(5)	Startup, shutdown, and malfunction reports	No.	
§63.10(e)(1) and (2)(i)	Additional CMS Reports	Yes.	
§63.10(e)(2)(ii)	COMS-related report	No	Subpart ZZZZ does not require COMS.
§63.10(e)(3)	Excess emission and parameter exceedances reports	Yes.	Except that §63.10(e)(3)(i) (C) is reserved.
§63.10(e)(4)	Reporting COMS data	No	Subpart ZZZZ does not require COMS.
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SCHOTT Gemtron Corporation Vincennes, Indiana Permit Reviewer: Janet Mobley

Page 45 of 45 M083-30150-00012

§63.10(f)	Waiver for recordkeeping/reporting	Yes.	
§63.11	Flares	No.	
§63.12	State authority and delegations	Yes.	
§63.13	Addresses	Yes.	
§63.14	Incorporation by reference	Yes.	
§63.15	Availability of information	Yes.	

[75 FR 9688, Mar. 3, 2010]

Printed from the internet on March 30, 2011.

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for a Minor Source Operating Permit Renewal

Source Background and Description

Source Name: SCHOTT Gemtron Corporation

Source Location: 2000 Chestnut Street, Vincennes, IN 47591

County: Knox SIC Code: 3231

Permit Renewal No.: M083-30150-00012 Permit Reviewer: Janet Mobley

The Office of Air Quality (OAQ) has reviewed the operating permit renewal application from SCHOTT Gemtron Corporation relating to the operation of a stationary glass products tempering source. On January 26, 2011, SCHOTT Gemtron Corporation submitted an application to the OAQ requesting to renew its operating permit. SCHOTT Gemtron Corporation was issued its first MSOP Renewal M083-22688-00012 on September 19, 2006.

Currently Permitted Emission Units and Pollution Control Equipment

The source currently consists of the following permitted emission units:

- (a) Three (3) heat treatment lines, identified as EU-01, installed in 1991, capacity: 4,854 pounds of glass per hour total, including the following equipment:
 - (1) Three (3) silk screening machines, identified as machine 1, machine 2 and machine 3, capacity: 1.35 pounds of paint per hour, each.
 - One (1) glass tech electric tempering furnace, equipped with one (1) tank of SO₂, exhausted to stack SO₂-01, capacity: 200 pounds of SO₂.
 - (3) One (1) air quenching operation.
 - (4) Six (6) glass edging units, which is a wet glass operation.
- (b) One (1) CERAN processing line, identified as EU-03, installed in 1993, exhausting to stacks CO-1B through CO-9B and stacks C0-1C through C0-5C, capacity:4.193 pounds of glass per hour, including the following equipment:
 - (1) Three (3) silk screening machines, identified as machine 1, machine 2 and machine 3, capacity: 2.50 pounds of paint per hour, each.
 - (2) Three (3) electric tempering furnaces.
 - (3) Three (3) cooling conveyors.
 - (4) One (1) laser cutter, identified as CERAN Laser, equipped with a baghouse for particulate control, identified as EU-LAS, exhausting to stack EU-LAS, capacity: 600 pounds of glass per hour.

- (c) One (1) spray cleaning operation, identified as EU-04, installed in 1991, equipped with solids filters, exhausting to stack XY-1C, capacity: 1.5 gallons of solvent per hour, consisting of the following equipment:
 - (1) One (1) solvent recovery still.
 - (2) One (1) wash booth #1 used for air grinding.
 - (3) One (1) wash booth #2 used for silk screen and paint removal, capacity: 5.49 pounds of solvent per hour.
 - (4) One (1) automatic screen washer, with a capacity of 55 gallons of solvent, and a solvent usage rate of 0.0445 gallons per hour.
- (d) Twenty-two (22) injection molding machines, identified as EU-05, which includes sixteen (16) plastic injection molding machines, installed in 1995, capacity: 32.15 pounds of polypropylene per hour, each and six (6) injection molding machines, installed in 2007, capacity: 27.7 pounds of polypropylene per hour, each.
- (e) Two (2) diesel fired emergency generators, identified as EU-06, installed in 1998, exhausted to stacks EP-1C and EP-2C, rated at 0.5 million British thermal units per hour, total, operating at 500 hours per year or less, each.
- (f) Forty-nine (49) building work natural gas-fired space heaters, identified as EU-07, installed in 1998, rated at 4.785 million British thermal units per hour, total.
- (g) Maintenance welding operations, identified as EU-08, consisting of the following:
 - (1) Eight (8) Metal Inert Gas (MIG) welding stations, capacity: 0.05 pounds of wire per hour, each.
 - (2) Four (4) Stick welding stations, capacity: 0.20 pounds of wire per hour, each.
 - (3) Two (2) Tungsten Inert Gas (TIG) welding stations, capacity: 0.10 pounds of wire per hour, each.
- (h) One maintenance metal grinding operation, identified as EU-09, installed prior to 2001, with a potential to emit PM of 0.06 tons per year.
- (i) One (1) glass edge grinding operation, identified as EU-10, installed in 1991, equipped with a particulate fiber filter for PM control, exhausted to Stack WR-01, and relocated within the source in 2002, capacity: 0.274 pounds of glass per hour.
- (j) One (1) CERAN strip wash operation, identified as EU-12, installed in 1995, exhausting to stack WV-1D, capacity: 60 glass panels per hour.
- (k) One (1) heat treatment line 5, identified as EU-13, installed in 2001, capacity: 3,050 pounds of glass per hour, total, including the following equipment:
 - (1) One (1) silk screening machine, capacity: 0.81 pounds of paint per hour.
 - (2) Two (2) glass edging units, which is a wet glass operation.
- (I) One (1) heavy tempering line (HT-6), identified as EU-14, installed in 2003, exhausting to stack W-01, capacity: 893 pounds of glass per hour total, including the following equipment:

SCHOTT Gemtron Corporation Vincennes, Indiana Permit Reviewer: Janet Mobley

- (1) Two (2) silk screening machines, capacity: 2.45 pounds of paint per hour, each.
- (2) One (1) slitting unit, with negligible emissions.
- (3) Three (3) glass edging units, which is a wet glass operation.
- (4) Two (2) small washer units.
- One (1) Rhonehouse 42 electric drying oven, equipped with one (1) tank of SO₂, exhausted to stack SO₂-14, capacity: 200 pounds of SO₂.
- (6) One (1) whopper machine, used to cut circles in the glass, with negligible emissions.
- (7) One (1) nubber operation, which is a wet glass edging operation.
- (m) One (1) heavy tempering line (HT-7), identified as EU-15, installed in 2003, exhausting to stack W-01, capacity: 893 pounds of glass per hour total, including the following equipment:
 - (1) One (1) silk screening machine, capacity: 2.45 pounds of paint per hour.
 - (2) One (1) slitting unit, with negligible emissions.
 - (3) Two (2) glass edging units, which is a wet glass operation.
 - (4) One (1) washer unit.
 - (5) One (1) stripcutter unit, used to cut the glass, with negligible emissions.
 - (6) One (1) nubber operation, which is a wet glass edging operation.
- (n) One (1) circle glass line (F-8), identified as EU-16, installed in 2003, exhausting to stack H-02, capacity: 488 pounds of glass per hour, including the following equipment:
 - (1) One (1) silk screening machine, capacity: 1.34 pounds of paint per hour.
 - (2) One (1) slitting unit, with negligible emissions.
 - (3) One (1) edging unit, which is a wet glass operation.
 - (4) One (1) washer unit.
 - (5) One (1) whopper machine, used to cut circles in the glass, with negligible emissions.
- (o) One (1) small parts line (F-9), identified as EU-17, installed in 2003, exhausting to stacks W-01 or H-02, capacity: 425 pounds of glass per hour, including the following equipment:
 - (1) One (1) silk screening machine, capacity: 1.34 pounds of paint per hour.
 - (2) Two (2) edging units, which is wet type glass operation.
 - (3) One (1) washer unit.

- (4) One (1) nubber operation, which is a wet glass edging operation.
- (5) One (1) Intermac edger machine, which is a wet glass operation.
- (6) Two (2) vertical edger units, which is a wet glass operation.
- (7) One (1) small part edger, which is a wet glass operation.
- (8) One (1) circle cutter, with negligible emissions.
- (9) Two (2) drills, which is a wet glass drilling operation.
- (10) Four (4) belt sanders.
- (11) One (1) 2-inch edger, which is a wet glass edging operation.
- (p) One (1) CERAN new furnace line, identified as EU-18, exhausting to stacks #1 through #3, installed in 2004, capacity: 1,398 pounds of glass per hour, including the following equipment:
 - (1) One (1) electric tempering furnace.
 - (2) One (1) cooling conveyor.
- (q) One (1) maintenance degreaser, identified as EU-19, installed prior to 2001, with a potential to emit VOC of 0.139 tons per year.
- (r) One (1) transparent armor windshield potting operation, identified as EU-20, constructed in 2009, applying adhesive with a caulk gun, with a maximum capacity of 2.5 kits per hour, and exhausting to the indoors.
- (t) Four (4) natural gas-fired space heaters, identified as SH1, installed prior to 2001, exhausting to stacks GF-1D, GF-2D, GF-3D and GF-1H, rated at 0.45 million British thermal units per hour, total.
- (u) Four (4) refrigerator heat stamping machines, including one (1) refrigerator shelf stamping decal removal area, identified as HSM, installed prior to 2004, capacity: 110 gallons of Ethyl Acetate per year.

Emission Units and Pollution Control Equipment Constructed and/or Operated without a Permit

The source has added another transparent armor windshield potting operation, identified as EU-21 in this permit renewal. At the present time it unit is installed but not operating. The following unit is being added to this source:

One (1) transparent armor windshield potting operation, identified as EU-21, approved for construction in 2011, applying adhesive with a caulk gun, with a maximum capacity of 2.5 kits per hour, and exhausting to the indoors.

The source also added another injection molding machine as part of EU-05, which they installed in February 2011, but is not operating, which makes a total of 23:

Twenty-three (23) injection molding machines, identified as EU-05, which includes sixteen (16) plastic injection molding machines, installed in 1995, capacity: 32.15 pounds of polypropylene per hour, each; six (6) injection molding machines, installed in 2007,

capacity: 27.7 pounds of polypropylene per hour, each and one (1) injection molding machine, installed in 2011, capacity: 27.7 pounds of polypropylene per hour.

Emission Units and Pollution Control Equipment Removed From the Source

The source has removed the following emission units from the source since the last permit.

- (a) The SO₂ tanks attached to the glass tech electric tempering furnace (EU-01). SO₂ is not in the plant any more. The Rhonehouse 42 electric drying oven has not been removed but is dismantled and not in operation. At the present time there are no plans to use it.
- (b) The solvent recovery still as part of the spray cleaning operation, identified as EU-04, has been removed from the source.
- (c) The following heavy furnaces have been removed:
 One (1) heavy tempering line (HT-6), identified as EU-14.
 One (1) heavy tempering line (HT-7), identified as EU-15.
 and the one (1) heat treatment line 5, identified as EU-13, is now part of EU-01.
- (d) The following equipment was removed from the small parts line (F-9), identified as EU-17:
 - (1) One (1) silk screening machine, capacity: 1.34 pounds of paint per hour.
 - (2) Two (2) edging units, which is wet type glass operation.
 - (3) One (1) washer unit.
 - (4) One (1) nubber operation, which is a wet glass edging operation.
 - (5) Two (2) drills, which is a wet glass drilling operation.
 - (6) One (1) 2-inch edger, which is a wet glass edging operation.

Permitted Emission Units and Pollution Control Equipment for this Renewal

For convenience, the following is the revised list of all the units as that will be covered in this renewal and as listed in the permit:

- (a) One (1) Glass Tech Processing Operation, including the following equipment:
 - One (1) glass tech electric tempering furnace, identified as EU-01, installed in 1991, capacity: 8,000 pounds of glass per hour total, exhausting to stack SO₂-01.

(Seven lines, identified as HT-0, HT-1, HT-2, HT-5, HT-6 and HT-7 and F-8 run into this furnace but only 4 lines can run at one time). The PTE is based on the 7 lines.

The glass tech processing operation consists of the furnace, air quenching and six lines. F-8 is part of EU-16.

- (2) One (1) air quenching operation.
- (3) Line 0, identified as HT-0, including the following equipment:
 - (A) one (1) silk screening machine, identified as machine 0, capacity: 1.35 pounds of paint per hour.

- (B) two (2) glass edging units, which is a wet glass operation.
- (C) One (1) slitting unit, with negligible emissions.
- (D) Two (2) small washer units.
- (E) One (1) nubber operation, which is a wet glass edging operation.
- (4) Line 1, identified as HT-1, including the following equipment:
 - (A) one (1) silk screening machine, identified as machine 1. capacity: 1.35 pounds of paint per hour.
 - (B) two (2) glass edging units, which is a wet glass operation.
 - (C) One (1) slitting unit, with negligible emissions.
 - (D) Two (2) small washer units.
 - (E) One (1) nubber operation, which is a wet glass edging operation.
- (5) Line 2, identified as HT-2, including the following equipment:
 - (A) one (1) silk screening machine, identified as machine 2. capacity: 1.35 pounds of paint per hour.
 - (B) two (2) glass edging units, which is a wet glass operation.
 - (C) One (1) slitting unit, with negligible emissions.
 - (D) Two (2) small washer units.
 - (E) One (1) nubber operation, which is a wet glass edging operation.
- (6) Line 5, identified as HT-5, including the following equipment:
 - (A) one (1) silk screening machine, identified as machine 5. capacity: 0.81 pounds of paint per hour.
 - (B) two (2) glass edging units, which is a wet glass operation.
 - (C) One (1) slitting unit, with negligible emissions.
 - (D) Two (2) small washer units.
 - (E) One (1) nubber operation, which is a wet glass edging operation.
- (7) Line 6, identified as HT-6, including the following equipment:
 - (A) One (1) silk screening machine, identified as machine 6. capacity: 2.45 pounds of paint per hour.
 - (B) Two (2) glass edging units, which is a wet glass operation.
 - (C) One (1) slitting unit, with negligible emissions.

- (D) Two (2) small washer units.
- (E) One (1) nubber operation, which is a wet glass edging operation.
- (8) Line 7, identified as HT-7, including the following equipment:
 - (A) One (1) silk screening machine, identified as machine 7. capacity: 2.45 pounds of paint per hour.
 - (B) Two (2) glass edging units, which is a wet glass operation.
 - (C) One (1) slitting unit, with negligible emissions.
 - (D) One (1) washer unit.
 - (E) One (1) stripcutter unit, used to cut the glass, with negligible emissions.
 - (F) One (1) nubber operation, which is a wet glass edging operation.
- (b) One (1) Rhonehouse 42 electric drying oven.

(This oven is not currently in operation and source does not have plans to operate the unit, if it is hooked up it would be a considered as a furnace).

- (c) One (1) CERAN processing line, identified as EU-03, installed in 1993, exhausting to stacks CO-1B through CO-9B and stacks C0-1C through C0-5C, capacity: 4.193 pounds of glass per hour, including the following equipment:
 - (1) Three (3) silk screening machines, identified as machine 1, machine 2 and machine 3, capacity: 2.50 pounds of paint per hour, each.
 - (2) Three (3) electric tempering furnaces.
 - (3) Three (3) cooling conveyors.
 - (4) One (1) laser cutter, identified as CERAN Laser, equipped with a baghouse for particulate control, identified as EU-LAS, exhausting to stack EU-LAS, capacity: 600 pounds of glass per hour.
- (d) One (1) spray cleaning operation, identified as EU-04, installed in 1991, equipped with solids filters, exhausting to stack XY-1C, capacity: 1.5 gallons of solvent per hour, consisting of the following equipment:
 - (1) One (1) wash booth #1 used for air grinding.
 - (2) One (1) wash booth #2 used for silk screen and paint removal, capacity: 5.49 pounds of solvent per hour.
 - One (1) automatic screen washer, with a capacity of 55 gallons of solvent, and a solvent usage rate of 0.0445 gallons per hour.
- (e) Twenty-three (23) injection molding machines, identified as EU-05, which includes sixteen (16) plastic injection molding machines, installed in 1995, capacity: 32.15 pounds of polypropylene per hour, each and six (6) injection molding machines, installed in 2007,

- capacity: 27.7 pounds of polypropylene per hour, each, and one (1) injection molding machine, installed in 2011, capacity 27.7 pounds of polypropylene per hour.
- (f) Two (2) diesel fired emergency generators, identified as EU-06, installed in 1998, exhausted to stacks EP-1C and EP-2C, rated at 0.5 million British thermal units per hour, total, operating at 500 hours per year or less, each.
- (g) Forty-nine (49) building work natural gas-fired space heaters, identified as EU-07, installed in 1998, rated at 4.785 million British thermal units per hour, total.
- (h) Maintenance welding operations, identified as EU-08, consisting of the following:
 - (1) Eight (8) Metal Inert Gas (MIG) welding stations, capacity: 0.05 pounds of wire per hour, each.
 - (2) Four (4) Stick welding stations, capacity: 0.20 pounds of wire per hour, each.
 - (3) Two (2) Tungsten Inert Gas (TIG) welding stations, capacity: 0.10 pounds of wire per hour, each.
- (i) One maintenance metal grinding operation, identified as EU-09, installed prior to 2001, with a potential to emit PM of 0.06 tons per year.
- (j) One (1) glass edge grinding operation, identified as EU-10, installed in 1991, equipped with a particulate fiber filter for PM control, exhausting to Stack WR-01, and relocated within the source in 2002, capacity: 0.274 pounds of glass per hour.
- (k) One (1) CERAN strip wash operation, identified as EU-12, installed in 1995, exhausting to stack WV-1D, capacity: 60 glass panels per hour.
- (I) One (1) circle glass line (F-8), identified as EU-16, installed in 2003, exhausting to stack H-02, capacity: 488 pounds of glass per hour, including the following equipment:
 - (1) One (1) edging unit, which is a wet glass operation.
 - (2) One (1) washer unit.
 - (3) One (1) whopper machine, used to cut circles in the glass, with negligible emissions.
- (m) One (1) small parts line (F-9), identified as EU-17, installed in 2003, exhausting to stacks W-01 or H-02, capacity: 425 pounds of glass per hour, including the following equipment:
 - (1) One (1) circle cutter, with negligible emissions.
 - (2) Four (4) belt sanders.
- (n) One (1) CERAN furnace line, identified as EU-18, exhausting to stacks #1 through #3, installed in 2004, capacity: 1,398 pounds of glass per hour, including the following equipment:
 - (1) One (1) electric tempering furnace.
 - (2) One (1) cooling conveyor.

- (o) One (1) maintenance degreaser, identified as EU-19, installed prior to 2001, with a potential to emit VOC of 0.139 tons per year.
- (p) One (1) transparent armor windshield potting operation, identified as EU-20, constructed in 2009, applying adhesive with a caulk gun, with a maximum capacity of 2.5 kits per hour, and exhausting to the indoors.
- (q) One (1) transparent armor windshield potting operation, identified as EU-21, approved for construction in 2011, applying adhesive with a caulk gun, with a maximum capacity of 2.5 kits per hour, and exhausting to the indoors.
- (r) Four (4) natural gas-fired space heaters, identified as SH1, installed prior to 2001, exhausting to stacks GF-1D, GF-2D, GF-3D and GF-1H, rated at 0.45 million British thermal units per hour, total.
- (s) Four (4) refrigerator heat stamping machines, including one (1) refrigerator shelf stamping decal removal area, identified as HSM, installed prior to 2004, capacity: 110 gallons of Ethyl Acetate per year.
- (t) One (1) Intermac machine, including:
 - (1) two (2) edging units, which is a wet glass operation.
- (u) One (1) Bevelar machine, including:
 - (1) two (2) vertical edger units, which is a wet glass operation.

Existing Approvals

Since the issuance of the MSOP 083-22688-00012 on September 19, 2006, the source has constructed or has been operating under the following additional approvals:

- (a) Notice Only Change No. 083-25096-000012 issued on August 30, 2007; and
- (b) Notice Only Change No. 083-28468-00012 issued on October 9, 2009.

All terms and conditions of previous permits issued pursuant to permitting programs approved into the State Implementation Plan have been either incorporated as originally stated, revised, or deleted by this permit. All previous registrations and permits are superseded by this permit.

Enforcement Issue

IDEM is aware that equipment has been constructed and operated prior to receipt of the proper permit. The subject equipment is listed in this Technical Support Document under the condition entitled "Emission Units and Pollution Control Equipment Constructed and/or Operated without a Permit".IDEM is reviewing this matter and will take appropriate action. This proposed permit is intended to satisfy the requirements of the construction permit rules.

Emission Calculations

See Appendix A of this document for detailed emission calculations.

County Attainment Status

The source is located in Knox County.

Pollutant	Designation									
SO ₂	Better than national standards.									
CO	Unclassifiable or attainment effective November 15, 1990.									
O ₃	Unclassifiable or attainment as of June 15, 2004, for the 8-hour ozone standard. ¹									
PM ₁₀	Unclassifiable effective November 15, 1990.									
NO ₂	Cannot be classified or better than national standards.									
Pb	Not designated.									
1 Unclas	Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard									
which	which was revoked effective June 15, 2005.									

Unclassifiable or attainment effective April 5, 2005, for PM2.5.

(a) Ozone Standards

Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. Knox County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(b) PM2.5

Knox County has been classified as attainment for PM2.5. On May 8, 2008 U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM2.5 emissions, and the effective date of these rules was July 15, 2008. Indiana has three years from the publication of these rules to revise its PSD rules, 326 IAC 2-2, to include those requirements. The May 8, 2008 rule revisions require IDEM to regulate PM10 emissions as a surrogate for PM2.5 emissions until 326 IAC 2-2 is revised.

(c) Other Criteria Pollutants

Knox County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

The fugitive emissions of criteria pollutants and hazardous air pollutants are counted toward the determination of 326 IAC 2-6.1 (Minor Source Operating Permits) applicability.

Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7, and there is no applicable New Source Performance Standard that was in effect on August 7, 1980, fugitive emissions are not counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

Unrestricted Potential Emissions

Appendix A of this TSD reflects the unrestricted potential emissions of the source.

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of all regulated pollutants is still less than 100 tons per year. However, VOC is equal to or greater than twenty-five (25) tons per year. The PTE of all other regulated criteria pollutants are currently less than twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-6.1. and the source will be issued an MSOP Renewal.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is less than ten (10) tons per year and/or the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-7. Therefore, the source will be issued an MSOP Renewal.

Potential to Emit After Issuance

The table below summarizes the potential to emit, reflecting all limits of the emission units. Any control equipment is considered enforceable only after issuance of this MSOP and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

	Pot	ential To E	mit of the	Entire So	urce Aft	er Issuan	ce of Re	newal (to	ns/year) **
Process/ Emission Unit	PM	PM10*	PM2.5	SO ₂	NOx	VOC	СО	Total HAPs	Worst Single HAP
EU-01 Glass Tech Processing Operation consisting of:									
Line 0, identified as HT-0, Paint Used in Silkscreening Machine 0	0.00	0.00	0.00	0.00	0.00	1.66	0.00	0.00	0.00
Solvent 6-96	0.00	0.00	0.00	0.00	0.00	1.80	0.00	0.00	0.00
Line 1, identified as HT-1, Paint Used in Silkscreening Machine 1 Solvent 6-96	0.00	0.00	0.00	0.00	0.00	1.66 1.80	0.00	0.00	0.00 0.00
Line 2, identified as HT-2, Paint Used in Silkscreening Machine 2	0.00	0.00	0.00	0.00	0.00	1.66	0.00	0.00	0.00
Solvent 6-96	0.00	0.00	0.00	0.00	0.00	1.80	0.00	0.00	0.00
Line 5, identified as HT-5, Paint Used in Silkscreening Machine 5	0.00	0.00	0.00	0.00	0.00	1.66	0.00	0.00	0.00
Solvent 6-96	0.00	0.00	0.00	0.00	0.00	1.80	0.00	0.00	0.00
Line 6, identified as HT-6, Paint Used in Silkscreening Machine 6	0.00	0.00	0.00	0.00	0.00	1.66	0.00	0.00	0.00
Solvent 6-96	0.00	0.00	0.00	0.00	0.00	1.80	0.00	0.00	0.00
Line 7, identified as HT-7, Paint Used in Silkscreening Machine 7	0.00	0.00	0.00	0.00	0.00	1.66	0.00	0.00	0.00
Solvent 6-96	0.00	0.00	0.00	0.00	0.00	1.80	0.00	0.00	0.00
CERAN Processing Line, Machine 1, 2 and 3 (EU-03)	0.01	0.03	0.03	0.0	0.0	6.92	0.00	0.01	0.00
CERAN Laser (EU-LAS) (part of EU-03)	0.03	0.03	0.03	0.0	0.0	0.0	0.0	0.0	
Spray Cleaning Operation (EU-04)	0.0	0.0	0.0	0.0	0.0	24.10	0.0	0.01	0.00
Automatic Screen Washer (part of EU-04)	0.0	0.0	0.0	0.0	0.0	1.54	0.0	0.0	0.0
23 Closed Injection Molding Machines (EU-05)	0.0	0.0	0.0	0.0	0.0	1.47	0.0	0.0	0.0

	Potential To Emit of the Entire Source After Issuance of Renewal (tons/year) **												
Process/ Emission Unit	PM	PM10*	PM2.5	SO ₂	NOx	VOC	СО	Total HAPs	Worst Single HAP				
(2) Diesel Fired Emergency Generators (EU-06)	0.04	0.04	0.04	0.04	0.55	0.05	0.12	0.0	0.0				
(49) Space Heaters (EU-07)	0.04	0.15	0.15	0.01	2.01	0.11	1.69	0.04	0.00				
Maintenance Welding (EU-08)	0.12	0.12	0.12	0.0	0.0	0.0	0.0	0.0	0.00				
Maintenance metal Grinding Operation (EU-09)	0.06	0.06	0.06	0.0	0.0	0.0	0.0	0.0	0.0				
Glass Edge Grinding (EU-10)	1.21	1.21	1.21	0.0	0.0	0.0	0.0	0.1	0.0				
CERAN strip wash solvent Recovery Unit (EU-12)	0.0	0.0	0.0	0.0	0.0	3.942	0.0	0.00	0.0				
Circle Glass Line (EU-16) and F-8	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0				
Small Parts Line (EU-17) circle cutter	negl.	negl.	negl.	0.0	0.0	0.00	0.0	0.0	0.0				
(4) Belt Sanders (Part of EU-17 Small Parts Line)	5.0	5.0	5.0	0.0	0.0	0.00	0.0	0.0	0.0				
Clean Up Solvent used in EU-18 and equipment after process	0.00	0.00	0.00	0.00	0.0	4.08	0.0	0.0	0.0				
Maintenance Degreaser (EU-19)	0.00	0.00	0.00	0.00	0.0	0.14	0.0	0.0	negl				
Transparent Armor Windshield Potting Operation (EU-20)	0.00	0.00	0.00	0.00	0.0	8.2	0.0	0.0	0.0				
Transparent Armor Windshield Potting Operation (EU-21)	0.00	0.00	0.00	0.00	0.0	8.2	0.0	0.0					
(4) Space Heaters (SH1)	0.00	0.01	0.01	0.0	0.2	0.0	0.2	0.00	negl.				
Refrigerator Heat Stamp Machines (HSM)	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0				
Total	6.52	6.66	6.66	0.05	2.75	79.98	1.97	0.06					
Title V Major Source Thresholds	NA	100	100	100	100	100	100	25	10				
PSD Major Source Thresholds	250	250	250	250	250	250	250	NA					
Emission Offset/ Nonattainment NSR Major Source Thresholds	NA	NA	NA	NA	NA	NA	NA	NA	NA				

negl. = negligible

This existing stationary source is not major for PSD because the emissions of each regulated pollutant are less than two hundred fifty (<250) tons per year, not major for Emission Offset because the emissions of the nonattainment pollutants, are less than one hundred (<100) tons per year, and it is not in one of the twenty-eight (28) listed source categories.

Federal Rule Applicability

Compliance Assurance Monitoring (CAM)

(a) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is not included in the permit, because the unlimited potential to emit of the source is less than the Title V major source thresholds and the source is not required to obtain a Part 70 or Part 71 permit.

New Source Performance Standards (NSPS)

^{*}Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant".

^{**} These are PTE Before Control.

- (a) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit for this source.
- (b) This requirements of the New Source Performance Standards, 326 IAC 12, (40 CFR 60.290 Subpart CC), Standards of Performance for Glass Manufacturing, are still not included in the permit because the source does not contain glass melting furnaces as defined in this subpart. These furnaces are used to bake paint onto the glass, there is no actual meliting of the glass.
- (c) The requirements of 40 CFR 60, Subpart IIII, New Source Performance Standards (NSPS) for Stationary Compression Ignition Internal Combustion Engines (40 CFR Part 60.4200 through 60.4219) (326 (IAC 12) are not included in this permit for the two diesel emergency generators, identified as EU-06, that were installed in 1998, which is before the applicable construction date of July 11, 2005, and the vendor manufacturing date of April 1, 2006.
- (d) There are no other New Source Performance Standards included in the permit for this source.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (a) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs), (40 CFR 63.200 Subpart T), Halogenated Solvent Cleaning, are not included in the permit for this source because no halogenated solvents are used in the degreasing operation.
- (b) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs), (40 CFR 63.5780 Subpart WWWW), Reinforced Plastic Composite Production, are not included in the permit for this source because this source is not a major source of HAPs, as defined in 40 CFR 63.2.
- (c) The transparent armor windshield potting operation is not subject to the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources, 40 CFR 63, Subpart HHHHHH, because the operation only applies adhesive using a caulk gun. Pursuant to 63.11180, adhesive does not meet the definition of a coating.
- (d) The two diesel-fired emergency generators, identified as EU-06, rated at a total 0.5 MMBtu total, are subject the requirements of the 40 CFR 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (326 IAC 20-82), because they are considered a existing stationary reciprocating internal combustion engines (RICE) (construction commenced before June 12, 2006) at an area source of hazardous air pollutants (HAP). Construction of the two diesel-fired emergency generators, identified as EU-06, rated at a total 0.5 MMBtu total, installed in 1998, are subject the following applicable portions of the NESHAP for existing emergency stationary RICE (construction commenced before June 12, 2006) at an area source of HAP:
- (1) 40 CFR 63.6580
- (2) 40 CFR 63.6585
- (3) 40 CFR 63.6590(a)(1)(iii)
- (4) 40 CFR 63.6595(a)(1), (b), and (c)
- (5) 40 CFR 63.6603
- (6) 40 CFR 63.6605
- (7) 40 CFR 63.6625(e)(3), (f), (h), and (i)
- (8) 40 CFR 63.6635

- (9) 40 CFR 63.6640
 - (10) 40 CFR 63.6645(a)(5)
 - (11) 40 CFR 63.6650
 - (12) 40 CFR 63.6655
 - (13) 40 CFR 63.6660
 - (14) 40 CFR 63.6665
 - (15) 40 CFR 63.6670
 - (16) 40 CFR 63.6675
 - (17) Table 2d (item 4)
 - (18) Table 6 (item 9)
 - (19) Table 8

Note: Existing emergency compression ignition (CI) stationary RICE located at an area source of HAP are not subject to numerical CO or formaldehyde emission limitations, but are only subject to work and management practices under Table 2d and Table 6.

The requirements of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the souce except as otherwise specified in 40 CFR 63, Subpart ZZZZ.

This is a new requirement for the source.

(e) There are no other National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included in the permit.

State Rule Applicability - Entire Source

- (a) 326 IAC 2-6.1 (Minor Source Operating Permits (MSOP))
 MSOP applicability is discussed under the Permit Level Determination MSOP section above.
- (b) 326 IAC 2-2 (Prevention of Significant Deterioration(PSD))

 This source is not a major stationary source, under PSD (326 IAC 2-2), because the potential to emit of all attainment regulated pollutants are less than 250 tons per year, and this source is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).

 Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.
- (c) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))

 The potential to emit of any single HAP is less than ten (10) tons per year and the potential to emit of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-4.1.
- (d) 326 IAC 2-6 (Emission Reporting)
 This source is not subject to 326 IAC 2-6 (Emission Reporting) because it is not required to have an operating permit pursuant to 326 IAC 2-7 (Part 70); it is not located in Lake, Porter, or LaPorte County, and its potential to emit lead is less than 5 tons per year. Therefore, this rule does not apply.
- (e) 326 IAC 5-1 (Opacity Limitations)
 Pursuant to 326 IAC 5-1-2 (Opacity limitations), except as provided in 326 IAC 5-1-3 (Temporary alternative opacity limitations), opacity shall meet the following, unless otherwise stated in the permit:
 - (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.
- (f) 326 IAC 6-4 (Fugitive Dust Emissions Limitations)

 Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4.
- (g) 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations) The source is not subject to the requirements of 326 IAC 6-5, because the potential fugitive particulate emissions are less than 25 tons per year.
- (h) 326 IAC 6.5 PM Limitations Except Lake County
 This source is not subject to 326 IAC 6.5 because it is not located in one of the following counties:
 Clark, Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo or Wayne.
- (i) 326 IAC 6.8 PM Limitations for Lake County
 This source is not subject to 326 IAC 6.8 because it is not located in Lake County.

State Rule Applicability – Individual Facilities

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

- (a) The surface coating being applied through the use of silk screening machines do not emit particulate matter because the transfer efficiency is 100%. Therefore, the silk screening machines shall not be subject to the requirements of 326 IAC 6-3-2.
- (b) Pursuant to 326 IAC 6-3-2, the allowable particulate emission rate from the one (1) laser cutter identified as CERAN Laser, shall not exceed 1.83 pounds per hour when operating at a process weight rate of 600 pounds per hour (0.300 tons per hour). According to page 14 of 16 of Appendix A, the uncontrolled potential to emit particulate from this laser cutter is 0.67 pounds per hour, which is less than the allowable of 1.83 pounds per hour. Therefore, the laser cutter can comply with this rule and the baghouse does not have to be in operation at all times the laser cutter is in use.
- (c) Pursuant to 326 IAC 6-3-2, the allowable particulate emissions rate from the four (4) belt sanders, associated with EU-17, shall be limited to 1.45 pounds per hour, total, at a process weight rate of 425 pounds per hour (0.213 tons per hour). As shown under the Emission Calculations section of the TSD, the uncontrolled potential to emit particulate from this sanding operation is 1.14 pounds per hour, which is less than the allowable of 1.45 pounds per hour. Therefore, the four (4) belt sanders can comply with this rule.
- (d) Pursuant to 326 IAC 6-3-2, the allowable particulate emissions rate from the one (1) glass edge grinding operation, identified as EU-10, shall not exceed 0.722 pounds per hour when operating at a process weight rate of 150 pounds per hour (0.075 tons per hour). The uncontrolled potential to emit particulate from this glass edge grinding operation is 0.277 tons per hour, which is less than the allowable of 0.722 pounds per hour. Therefore, the one (1) glass edge grinding operation, identified as EU-10, can comply with this rule.

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

 $E = 4.10 P^{0.67}$ where E =rate of emission in pounds per hour and P =process weight rate in tons per hour

- (e) The maintenance welding consumes less than 625 pounds of weld wire or rod per day. Therefore, pursuant to 326 IAC 6-3-1(b)(9), the maintenance welding is exempt from the requirements of 326 IAC 6-3-2.
- (f) The maintenance welding metal grinding operation has a potential to emit of less than 0.551 pounds per hour. Therefore, pursuant to 326 IAC 6-3-1(b)(14), the maintenance welding is exempt from the requirements of 326 IAC 6-3-2.
- (g) The electric tempering furnaces, molding machines and air quenching operations do not emit any particulate matter. Therefore these units shall not be subject to the requirements of 326 IAC 6-3-2.
- (h) Potential to Emit of the four (4) refrigerator heat stamping machines, including one (1) refrigerator shelf stamping decal removal area.

The four (4) refrigerator heat stamping machines, including one (1) refrigerator shelf stamping decal removal area, identified as HSM, will use Ethyl Acetate to remove wrong or misplaced decals from the shelves. The maximum usage of Ethyl Acetate from this process is 110 gallons per year. The Ethyl Acetate has a density of 7.67 pounds per gallon. The potential to emit from this operation is 110 gal/yr x 7.67 lbs/gal = 844 pounds, or 0.422 tons per year of VOC per year.

- (i) Potential to Emit of the SO₂ tanks (part of process lines EU-01, EU-02, and EU-14) that was in their previous permit has been eliminated. The SO₂ is no longer used at the source.
- (j) Potential to Emit of the screen washer (part of the existing EU-04 line)
 The screen washer has a capacity of 55 gallons of 6-96 solvent. However, the washer will re-use most of the solvent. Therefore, only 0.0445 gallons per hour of solvent will actually be used. This number is based on tests by the source which showed that 15 gallons of solvent were used over a two week time period. The density of the 6-96 solvent is 7.92 lbs per gallon. The potential to emit VOC is calculated as follows:

 $0.0445 \text{ gal/hr} \times 8,760 \text{ hrs/yr} = 390 \text{ gallons per year}. 390 \text{ gal/yr} \times 7.92 \text{ lbs/gal} = 3,089 \text{ lbs/yr} \times 3,089 \text{ lbs/yr} \times 1 \text{ ton/} 2000 \text{ lbs} = 1.54 \text{ tons per year} \text{ of VOC}.$

(k) Potential to Emit of the belt sanders (part of existing EU-17 small parts line) 0.0283 in³/piece removed

400 pieces/hr X $0.0283 \text{ in}^3/\text{piece} = 11.32 \text{ in}^3/\text{hr} (11.32 \text{ in}^3/\text{hr} / 1728 \text{ in}^3/\text{ft}^3)$ X (2.8 spec. grav. glass X 62.4 lbs/ft³) = 1.144 lbs/hr PM produced (1.144 lbs/hr X 24 hrs/day X 365 days/yr) / 2000 lbs/ton = 5.01 tons/yr of PM produced

326 IAC 8-1-6 (New facilities; General reduction requirements)

The emission units identified as EU-01, EU-03, EU-04, EU-05, EU-12, 16 and EU-17, EU-19 and HSM are not subject to the requirements of 326 IAC 8-1-6 because the potential to emit VOC from each unit is less than twenty-five (25) tons per year.

Transparent Armor Windshield Potting Operation

(a) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes) The transparent armor windshield potting operation is exempt from the requirements of 326 IAC 6-3-2, because the adhesive is applied using a caulk gun and does not have the potential to emit particulate. SCHOTT Gemtron Corporation Vincennes, Indiana Permit Reviewer: Janet Mobley

- (b) 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)
 The transparent armor windshield potting operation is not subject to the requirements of 326 IAC 8-1-6, since the unlimited VOC potential emissions from the transparent armor windshield potting operation is less than twenty-five (25) tons per year.
- (c) 326 IAC 8-2-9 (Volatile Organic Compounds, Miscellaneous Metal Coating Operations)
 The transparent armor windshield potting operation was constructed after July 1, 1990, is located in Knox County, and has actual emissions of greater than fifteen (15) pounds of VOC per day before add-on controls. However, this source does not coat metal parts or products under the Standard Industrial Classification Code of major groups #33 through #39. Therefore, this operation is not subject to the requirements of 326 IAC 8-2-9.

326 IAC 8-3-2 (Cold Cleaner Operations)

Pursuant to 326 IAC 8-3-2, for the cold cleaner operations, identified as EU-4, EU-12, and EU-19, which were constructed after January 1, 1980, the Permittee shall:

- (1) equip the cleaner with a cover;
- (2) equip the cleaner with a facility for draining cleaned parts;
- (3) close the degreaser cover whenever parts are not being handled in the cleaner;
- (4) drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
- (5) provide a permanent, conspicuous label summarizing the operating requirements;
- (6) store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

326 IAC 8-3-5 (Cold Cleaner Degreaser Operation and Control)

The one (1) CERAN strip wash operation, one (1) maintenance degreaser, and the one (1) spray cleaning operation, identified as EU-12, EU-19, and EU-4, respectively, are subject to the provisions of 326 IAC 8-3-5 (Organic solvent degreasing operations: cold cleaner degreaser operation and control) because they are performing organic solvent degreasing operations and were constructed after 1990.

- (a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), the Permittee of a cold cleaner degreaser facility construction of which commenced after July 1, 1990, shall ensure that the following control equipment requirements are met:
 - (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
 - (A) The solvent volatility is greater than two (2) kilopascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));
 - (B) The solvent is agitated; or
 - (C) The solvent is heated.

- (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kilopascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.
- (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
- (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
- (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kilopascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
 - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
 - (B) A water cover when solvent is used is insoluble in, and heavier than, water.
 - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller of carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), for a cold cleaning facility construction of which commenced after July 1, 1990, the Permittee shall ensure that the following operating requirements are met:
 - (1) Close the cover whenever articles are not being handled in the degreaser.
 - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
 - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

Emergency Generators

Since it is now the standard to determine the PTE of emergency generators at 500 hours per year of operation, the existing requirement to keep records of actual operations has not been carried over to this renewal.

326 IAC 7-1.1 Sulfur Dioxide Emission Limitations

This emission unit is not subject to 326 IAC 326 IAC 7-1.1 because its SO₂ PTE (or limited SO₂ PTE) is less than 25 tons/year or 10 pounds/hour.

326 IAC 12 (New Source Performance Standards) See Federal Rule Applicability Section of this TSD.

326 IAC 20 (Hazardous Air Pollutants)

See Federal Rule Applicability Section of this TSD.

Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-6.1 are required to ensure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a continuous demonstration. When this occurs, IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-6.1-5. As a result, Compliance Determination Requirements are included in the permit. The Compliance Determination Requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

If the Compliance Determination Requirements are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

There continues to be no specific compliance monitoring, determination or testing requirements applicable to this source.

Recommendation

The staff recommends to the Commissioner that the MSOP Renewal be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An application for the purposes of this review was received on January 26, 2011. Additional information was received on April 1, 20 and 28, 2011.

Conclusion

The operation of this stationary glass products tempering source shall be subject to the conditions of the attached MSOP Renewal No. 083-30150-00012.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Janet Mobley at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-5373 or toll free at 1-800-451-6027 extension 4-5373.
- (b) A copy of the findings is available on the Internet at: http://www.in.gov/ai/appfiles/idem-caats/
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

Attachment A: Emissions Calculations Summary of Emissions

Company Name: SCHOTT Gemtron Corporation
Address City IN Zip: 200 Chestnut Street, Vincennes, IN 47591
Permit Number: 083-30150-00012

Reviewer: Janet Mobley

		Uncontrolled	d Potential to	Emit of Afte	er Issuance (t	ons/yr)				
Process	PM	PM10	PM2.5	SO ₂	NOx	voc	co	Total HAPs	Sing	e HAP
EU-01 Glass Tech Processing Operation		•	•	•		•				
consisting of:										
Line 0, identified as HT-0,										
Paint Used in Silkscreening Machine 0	0.00	0.00	0.00	0.00	0.00	1.66	0.00	0.00	0.00	
Solvent 6-96	0.00	0.00	0.00	0.00	0.00	1.80	0.00	0.00	0.00	
Line 1, identified as HT-1										
Paint Used in Silkscreening Machine 1	0.00	0.00	0.00	0.00	0.00	1.66	0.00	0.00	0.00	
Solvent 6-96	0.00	0.00	0.00	0.00	0.00	1.80	0.00	0.00	0.00	
Line 2, identified as HT-2										
Paint Used in Silkscreening Machine 2	0.00	0.00	0.00	0.00	0.00	1.66	0.00	0.00	0.00	
Solvent 6-96	0.00	0.00	0.00	0.00	0.00	1.80	0.00	0.00	0.00	
Line 5, identified as HT-5	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	
Paint Used in Silkscreening Machine 5	0.00	0.00	0.00	0.00	0.00	1.66	0.00	0.00	0.00	
Solvent 6-96	0.00	0.00	0.00	0.00	0.00	1.80	0.00	0.00	0.00	
	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	
Line 6, identified as HT-6										
Paint Used in Silkscreening Machine 6	0.00	0.00	0.00	0.00	0.00	1.66	0.00	0.00	0.00	
Solvent 6-96	0.00	0.00	0.00	0.00	0.00	1.80	0.00	0.00	0.00	
Line 7, identified as HT-7										
Paint Used in Silkscreening Machine 7	0.00	0.00	0.00	0.00	0.00	1.66	0.00	0.00	0.00	
Solvent 6-96	0.00	0.00	0.00	0.00	0.00	1.80	0.00	0.00	0.00	
CERAN Processing Line, Machine 1, 2 and 3										
(EU-03)	0.00	0.00	0.00	0.0	0.0	6.92	0.0	0.01	0.01	Xylene
CERAN Laser (EU-LAS) (part of EU-03)	2.95	2.95	2.95	0.0	0.0	0.00	0.0	0	0	
Spray Cleaning Operation (EU-04)	0.0	0.0	0.0	0.0	0.0	24.10	0.0	0.0	0	
Automatic Screen Washer (part of EU-04)	0.0	0.0	0.0	0.0	0.0	1.54	0.0	0.0	0.0	
23 Closed Injection Molding Machines (EU-05)	0.0	0.0	0.0	0.0	0.0	1.47	0.0	0.0	0.0	
(2) Diesel Fired Emergency Generators (EU-06)	0.04	0.04	0.04	0.04	0.55	0.05	0.12	0.00	0.0	
(49) Space Heaters (EU-07)	0.04	0.15	0.15	0.01	2.01	0.11	1.69	0.04	Negl.	
Maintenance Welding (EU-08)	0.12	0.12	0.12	0.0	0.0	0.0	0.0	0.0	0.0	
11.										
Maintenance metal Grinding Operation (EU-09)	0.06	0.06	0.06	0.0	0.0	0.0	0.0	0.0	0.0	
Glass Edge Grinding (EU-10) CERAN strip wash solvent Recovery Unit (EU-	1.21	1.21	1.21	0.0	0.0	0.0	0.0	0.00		
	0.0	0.0	0.0	0.0		0.040	0.0	0.0	0.0	
12)	0.0	0.0	0.0	0.0	0.0	3.942	0.0	0.0	0.0	
Circle Glass Line (EU-16)	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	
Small Parts Line (EU-17) circle cutter	negl.	negl.	negl.	0.0	0.0	0.00	0.0	0.0	0.0	
(4) Belt Sanders (Part of EU-17 Small Parts Line) Clean Up Solvent used in EU-18 and equipment	5.0	5.0	5.0	0.0	0.0	0.00	0.0	0.0	0.0	
						4.00				
after process	0.0	0.0	0.0	0.0	0.0	4.08	0.0	0.0	0.0	
Maintenance Degreaser (EU-19)	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	Negl.	
Transparent Armor Windshield Potting Operation										
(EU-20)	0.00	0.00	0.00	0.0	0.0	8.2	0.0	0.0	0.0	
Transparent Armor Windshield Potting Operation										
(EU-21)	0.00	0.00	0.00	0.0	0.0	8.2	0.0	0.0	0.0	
(4) Space Heaters (SH1)	0.00	0.01	0.01	0.0	0.2	0.0	0.2	0.00	0.00	Hexane
Refrigerator Heat Stamping Machines (HSM)	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0	
TOTAL	9.43	9.55	9.55	0.05	2.75	79.98	1.97	0.05		

Attachment A: Emissions Calculations Summary of Emissions

Company Name: SCHOTT Gemtron Corporation Address City IN Zip: 200 Chestnut Street, Vincennes, IN 47591 Permit Number: 083-30150-0012 Reviewer: Janet Mobley

		Control	led Potential	to Emit of A	fter Issuanc	e (tons/yr)				
Process	PM	PM10	PM2.5	SO ₂	NOx	VOC	CO	Total HAPs	Singl	e HAP
EU-01 Glass Tech Processing										
Operation consisting of:										
Line 0, identified as HT-0,										
Paint Used in Silkscreening Machine 0	0.00	0.00	0.00	0.00	0.00	1.66	0.00	0.00	0.00	
Solvent 6-96	0.00	0.00	0.00	0.00	0.00	1.80	0.00	0.00	0.00	
Line 1, identified as HT-1										
Paint Used in Silkscreening Machine 1	0.00	0.00	0.00	0.00	0.00	1.66	0.00	0.00	0.00	
Solvent 6-96	0.00	0.00	0.00	0.00	0.00	1.80	0.00	0.00	0.00	
Line 2, identified as HT-2										
Paint Used in Silkscreening Machine 2	0.00	0.00	0.00	0.00	0.00	1.66	0.00	0.00	0.00	
Solvent 6-96	0.00	0.00	0.00	0.00	0.00	1.80	0.00	0.00	0.00	
Line 5, identified as HT-5										
Paint Used in Silkscreening Machine 5	0.00	0.00	0.00	0.00	0.00	1.66	0.00	0.00	0.00	
Solvent 6-96	0.00	0.00	0.00	0.00	0.00	1.80	0.00	0.00	0.00	
Line 6, identified as HT-6 Paint Used in Silkscreening Machine 6	0.00	0.00	0.00	0.00	0.00	1.66	0.00	0.00	0.00	
Solvent 6-96	0.00	0.00	0.00	0.00	0.00	1.80	0.00	0.00	0.00	
Line 7, identified as HT-7	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	
Paint Used in Silkscreening Machine 7	0.00	0.00	0.00	0.00	0.00	1.66	0.00	0.00	0.00	
Solvent 6-96	0.00	0.00	0.00	0.00	0.00	1.80	0.00	0.00	0.00	
CERAN Processing Line, Machine 1, 2	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	
and 3 (EU-03)	0.01	0.03	0.03	0.0	0.0	6.92	0.0	0.01	0.01	Xylene
CERAN Laser (EU-LAS) (part of EU-										,
03)	0.03	0.03	0.03	0.0	0.0	0.00	0.0	0	0	
Ones Ole seles Ones the (FU Ot)	0.0	0.0	0.0	0.0	0.0	04.40	0.0	0.0	•	
Spray Cleaning Operation (EU-04) Automatic Screen Washer (part of EU-	0.0	0.0	0.0	0.0	0.0	24.10	0.0	0.0	0	
04)	0.0	0.0	0.0	0.0	0.0	1.54	0.0	0.0	0.0	
23 Closed Injection Molding Machines	0.0	0.0	0.0	0.0	0.0	1.54	0.0	0.0	0.0	
(EU-05)	0.0	0.0	0.0	0.0	0.0	1.47	0.0	0.0	0.0	
(2) Diesel Fired Emergency Generators	0.0	0.0	0.0	0.0	0.0	1.47	0.0	0.0	0.0	
(EU-06)	0.04	0.04	0.04	0.04	0.55	0.05	0.12	0.00	0.0	
(49) Space Heaters (EU-07)	0.04	0.15	0.15	0.01	2.01	0.11	1.69	0.04	Negl.	
Maintenance Welding (EU-08)	0.12	0.12	0.12	0.0	0.0	0.0	0.0	0.0	0.0	
Maintenance metal Grinding Operation	0.12	0.12	0.12	0.0	0.0	0.0	0.0	0.0	0.0	
(EU-09)	0.06	0.06	0.06	0.0	0.0	0.0	0.0	0.0	0.0	
Glass Edge Grinding (EU-10)	1.21	1.21	1.21	0.0	0.0	0.0	0.0	0.01	0.00	
CERAN strip wash solvent Recovery										
Unit (EU-12)	0.0	0.0	0.0	0.0	0.0	3.942	0.0	0.0	0.0	
Circle Glass Line (EU-16)	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	
Oncell Books Line (ELL 47) single control				0.0	0.0	0.00	0.0	0.0	0.0	
Small Parts Line (EU-17) circle cutter (4) Belt Sanders (Part of EU-17 Small	negl.	negl.	negl.	0.0	0.0	0.00	0.0	0.0	0.0	
Parts Line)	5.0	5.0	5.0	0.0	0.0	0.00	0.0	0.0	0.0	
Clean Up Solvent used in EU-18 and	5.0	5.0	5.0	0.0	0.0	0.00	0.0	0.0	0.0	
equipment after process	0.0	0.0	0.0	0.0	0.0	4.08	0.0	0.0	0.0	
• • • • • • • • • • • • • • • • • • • •	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00		
Maintenance Degreaser (EU-19) Transparent Armor Windshield Potting	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	Negl.	
Operation (EU-20)	0	0	0	0.0	0.0	8.2	0.0	0.0	0.0	
Transparent Armor Windshield Potting				1						
Operation (EU-21)	0	0	0	0.0	0.0	8.2	0.0	0.0	0.0	
(4) Space Heaters (SH1)	0.00	0.01	0.01	0.0	0.2	0.0	0.2	0.00	0.00	Hexane
Refrigerator Heat Stamping Machines (HSM)	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0	
TOTAL	6.52	6.66	6.66	0.05	2.75	79.98	1.97	0.06	0.0	-

Appendix A: Emissions Calculations VOC and Particulate

Unit EU-01 - Heat Treatment Lines, Machines 0, 1, 2, 5, 6 and 7

Company Name: SCHOTT Gemtron Corporation

Address City IN Zip: 200 Chestnut Street, Vincennes, IN 47591

MSOP: 083-30150-00012 Reviewer: Janet Mobley

*Note: One unit is equal to 1000 pounds of glass

Material	Density (lbs/gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gal/unit)	Maximum (units/hour)*	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC (pounds per hour)	Potential VOC (pounds per day)	Potential VOC (tons per year)	Particulate Potential (tons/yr)	lbs VOC/gal solids	Transfer Efficiency
Glass Tech Processing Operation																
Line 0, identified as HT-0,																
Paint Used in Silkscreening Machine 0	23.00	30.00%	13.0%	17.0%	0.0%	70.00%	0.01210	8.0	3.91	3.91	0.38	9.08	1.66	0.00	5.59	100%
Solvent 6-96	7.92	100.00%	0.0%	100.0%	0.0%	0.00%	0.00650	8.0	7.92	7.92	0.41	9.88	1.80	0.00	n/a	100%
Line 1, identified as HT-1																
Paint Used in Silkscreening Machine 1	23.00	30.00%	13.0%	17.0%	0.0%	70.00%	0.01210	8.0	3.91	3.91	0.38	9.08	1.66	0.00	5.59	100%
Solvent 6-96	7.92	100.00%	0.0%	100.0%	0.0%	0.00%	0.00650	8.0	7.92	7.92	0.41	9.88	1.80	0.00	n/a	100%
Line 2, identified as HT-2																
Paint Used in Silkscreening Machine 2	23.00	30.00%	13.0%	17.0%	0.0%	70.00%	0.01210	8.0	3.91	3.91	0.38	9.08	1.66	0.00	5.59	100%
Solvent 6-96	7.92	100.00%	0.0%	100.0%	0.0%	0.00%	0.00650	8.0	7.92	7.92	0.41	9.88	1.80	0.00	n/a	100%
Line 5, identified as HT-5																
Paint Used in Silkscreening Machine 5	23.00	30.00%	13.0%	17.0%	0.0%	70.00%	0.01210	8.0	3.91	3.91	0.38	9.08	1.66	0.00	5.59	100%
Solvent 6-96	7.92	100.00%	0.0%	100.0%	0.0%	0.00%	0.00650	8.0	7.92	7.92	0.41	9.88	1.80	0.00	n/a	100%
Line 6, identified as HT-6																
Paint Used in Silkscreening Machine 6	23.00	30.00%	13.0%	17.0%	0.0%	70.00%	0.01210	8.0	3.91	3.91	0.38	9.08	1.66	0.00	5.59	100%
Solvent 6-96	7.92	100.00%	0.0%	100.0%	0.0%	0.00%	0.00650	8.0	7.92	7.92	0.41	9.88	1.80	0.00	n/a	100%
Line 7, identified as HT-7	_															
Paint Used in Silkscreening Machine 7	23.00	30.00%	13.0%	17.0%	0.0%	70.00%	0.01210	8.0	3.91	3.91	0.38	9.08	1.66	0.00	5.59	100%
Solvent 6-96	7.92	100.00%	0.0%	100.0%	0.0%	0.00%	0.00650	8.0	7.92	7.92	0.41	9.88	1.80	0.00	n/a	100%

Control Efficiency 0.00%

Uncontrolled 4.742 113.8 20.77 0.00 33.5

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lbs/gal) * Weight % Organics) / (1-Volume % water) Pounds of VOC per Gallon Coating = (Density (lbs/gal) * Weight % Organics)

Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lbs/gal) * Gal of Material (gal/unit) * Maximum (units/hr)

Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lbs/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)

Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lbs/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs) Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) *(8760 hrs/yr) * (1 ton/2000 lbs) Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids)
Total = Worst Coating + Sum of all solvents used

Appendix A: Emissions Calculations VOC

EU-03 - CERAN processing line Company Name: SCHOTT Gemtron Corporation

Address City IN Zip: 200 Chestnut Street, Vincennes, IN 47591

MSOP: 083-30150-00012 Reviewer: Janet Mobley

*Note: One unit is equal to 1000 pounds of glass

Material	Density (lbs/gal)	Weight % Volatile (H20 & Organics)	weight %	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gal/unit)	Maximum (units/hour)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC (pounds per hour)	Potential VOC (pounds per day)	Potential VOC (tons per year)	lbs VOC/gal solids	Transfer Efficiency
CERAN Processing Line (EU-03)															
Paint Used in Silkscreening Machine 1	40.00	30.00%	14.2%	15.8%	0.0%	70.00%	0.01490	4.193	6.32	6.32	0.39	9.48	1.73	9.03	100%
Paint Used in Silkscreening Machine 2	40.00	30.00%	14.2%	15.8%	0.0%	70.00%	0.01490	4.193	6.32	6.32	0.39	9.48	1.73	9.03	100%
Paint Used in Silkscreening Machine 3	40.00	30.00%	14.2%	15.8%	0.0%	70.00%	0.01490	4.193	6.32	6.32	0.39	9.48	1.73	9.03	100%
CERDEC 80452		100.00%	0.0%	100.0%	0.0%	0.00%		4.193			0.21	5.04	0.92	n/a	100%
Prestoline HG	7.58	100.00%	0.0%	100.0%	0.0%	0.00%	0.00584	4.193	7.58	7.58	0.19	4.45	0.81	n/a	100%
													•		

PM Control Efficiency 0.00%

> 6.92 Uncontrolled 1.58 37.9 Controlled 1.58 37.9 6.92

Add worst case coating to all solvents

*Note: Potential VOC emissions from CERDEC 80452 used at EU-03 was obtained from calculations received from source. The density and Gallons of material were unknown

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lbs/gal) * Weight % Organics) / (1-Volume % water)

Pounds of VOC per Gallon Coating = (Density (lbs/gal) * Weight % Organics)

Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lbs/gal) * Gal of Material (gal/unit) * Maximum (units/hr)

Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lbs/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)

Potential VOC Tons per Year = Pounds of VOC per Gallon coating (bs/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)

Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids)

Total = Worst Coating + Sum of all solvents used

Page 5 of 24 TSD App A

Appendix A: Emission Calculations **HAP Emission Calculations**

EU-3

Company Name: SCHOTT Gemtron Corporation Address City IN Zip: 2000 Chestnut Street, Vincennes, Indiana 47591

MSOP: 083-30150-00012 Reviewer: Janet Mobley

Material	Density	Gallons of Material	Maximum	Weight %	Xylene Emissions
	(lbs/gal)	(gal/unit)	(unit/hour)	Xylene	(tons/yr)
CERAN Process Line (EU-03)					
Prestoline HG	7.58	0.00584	4.193	1.20%	0.010

Individual Total 0.010 Overall Total 0.010

METHODOLOGY

HAPS Emission Rate(tons/yr)=Density(lbs/gal)* Gal of Material(gal/unit) * Maximum (unit/hr) * Weight % HAP * 8760 hrs/yr* 1 ton/2000lbs

METHODOLOGY

HAPS emission rate (tons/yr) =Potential Grinding Emissions (tons/yr) * Weight % HAP

Appendix A: Emission Calculations Laser Cutter - CERAN Laser (Part of EU-03)

PM Emissions

Company Name: SCHOTT Gemtron Corporation

Address City IN Zip: 2000 Chestnut Street, Vincennes, Indiana 47591

MSOP 083-30150-00012 Reviewer: Janet Mobley

Unit ID	Control	Grain Loading per Actual	Gas or Air	PM Emission Rate	PM Emission Rate	PM Emission Rate	PM Emission Rate
	Efficiency	Cubic foot of Outlet Air	Flow Rate	before Controls	before Controls	after Controls	after Controls
	(%)	(grains/cub. ft.)	(acfm.)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
CERAN Laser (EU-LAS)	99.1%	0.0004	1766	0.67	2.95	0.0061	0.027

Methodology

Emission Rate in lbs/hr (after controls) = (grains/cub. ft.) (cub. ft./min.) (60 min/hr) (lb/7000 grains) Emission Rate in tons/yr = (lbs/hr) (8760 hr/yr) (ton/2000 lb)

 $Emission \ Rate \ in \ lbs/hr \ (before \ controls) = Emission \ Rate \ (after \ controls): \ (lbs/hr)/(1-control \ efficiency)$

Emission Rate in tons/yr = (lbs/hr) (8760 hr/yr) (ton/2000 lb)

Appendix A: Emissions Calculations VOC and Particulate

EU-04 - Spray Cleaning Operation

Company Name: SCHOTT Gemtron Corporation
Address City IN Zip: 200 Chestnut Street, Vincennes, IN 47591

MSOP: 083-30150-00012 Reviewer: Janet Mobley

*Note: One unit is equal to 1000 pounds of glass

"Note: One unit is equal to 1000 pounds of glas	33															
Material	Density (lbs/gal)	Weight % Volatile (H20 & Organics)		Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gal/unit)	Maximum	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating		Potential VOC (pounds per day)	Potential VOC (tons per year)	Particulate Potential (tons/yr)	lbs VOC/gal solids	Transfer Efficiency
Spray Cleaning Operation (EU-04)																
Solvent 6-96	7.92	100.00%	0.0%	100.0%	0.0%	0.00%	0.0385	18.04	7.92	7.92	5.50	132.02	24.09	0.00	n/a	100%

M Control Efficiency 0.00%

 Uncontrolled
 5.50
 132
 24.1
 0.00

 Controlled
 5.50
 132
 24.1
 0.00

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lbs/gal) * Weight % Organics) / (1-Volume % water)

Pounds of VOC per Gallon Coating = (Density (lbs/gal) * Weight % Organics)

Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lbs/gal) * Gal of Material (gal/unit) * Maximum (units/hr)

Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lbs/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)

Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lbs/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)

Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) *(8760 hrs/yr) * (1 ton/2000 lbs)

Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids)

Total = Worst Coating + Sum of all solvents used

Appendix A: State Potential Emissions Calculations Automatic Screen Washer (Part of EU-04 Line)

Page 8 of 24 TSD App A

Company Name: SCHOTT Gemtron Corporation

Address City IN Zip: 2000 Chestnut Street, Vincennes, Indiana 47591

MSOP: 083-30150-00012 Reviewer: Janet Mobley

Screen Washer

Material	Density	Weight %	Weight %	Weight %	Gallon of Material	Gal of Mat	Potential VOC	Potential VOC
	(lb/gal)	Volatile	Water	Organics	(gal/hr)	(gal/year)	(lb/year)	(ton/yr)
		(H20 &						
		Organics)						
6-96 Solvent	7.92	100.00%	0.0%	100.0%	0.0445	389.8	3087.374	1.544

Note: Source information used in this calculation submitted for NOC 083-18687-00012 issued August 1, 2005.

The screen washer has a capacity of 55 gallons solvent, but will reuse most of the solvent, therefore only 0.0445 gallons per hour of solvent will actually be used.

The gallons used is based on tests by the source which showed that 15 gallons of solvent were used over a two week period.

METHODOLOGY

Potential VOC Pounds per Day = Solvent Density (lbs/gallon) * weight % volatiles * solvent consumption (gallons/day)

Potential VOC Tons per Year = Potential VOC Pounds per Day * (365 days/yr) * (1 ton/2000 lbs)

Appendix A: Emissions Calculations

VOC Potential Emissions

EU-05 - 23 Closed Injection Molding Machines Company Name: SCHOTT Gemtron Corporation

Address City IN Zip: 2000 Chestnut Street, Vincennes, Indiana 47591

Notice Only Change 083-30150-00012 Reviewer: Janet Mobley

Twenty-three (23) Injection Molding Machines Total (EU-05)

D ----Equipment

Original 16 injection molding machines Six (6) relocated injection molding machines Injection molding machine installed in 2011

Raw
Material Rate
Polypropylene
lbs/hr

32.150	
27.778	
27.778	

Total Raw Material For Machines Polypropylene lbs/hr

514.40
166.67
27.78

Total

Total Raw Material For Molding Machines Polypropylene tons/hr

Page 9 of 24 TSD App A

	0.257	
	0.083	
	0.139	
=	0.479	

Pollutant

	1 Ullutarit
	VOC
Emission Factor in lbs/ton	0.7
Potential Emission in tons/yr	1.470

Methodology

The VOC emission factor is from AP-42, Section 6.64, Table 6.6.4-1

Appendix A: Emission Calculations Reciprocating Internal Combustion Engines - Diesel Fuel Output Rating (<=600 HP)

Maximum Input Rate (<=4.2 MMBtu/hr)

Emergency Generators - (EU-06)

Company Name: SCHOTT Gemtron Corporation

Address City IN Zip: 2000 Chestnut Street, Vincennes, Indiana 47591

Permit Number: 083-30150-00012 Reviewer: Janet Mobley

A. Emissions calculated based on heat input capacity (MMBtu/hr)

Heat Input Capacity (MMBtu/hr)	
Maximum Hours Operated per Year	500
Potential Throughput (MMBtu/yr)	250

		Pollutant									
	PM*	PM10*	PM2.5*	SO2	NOx	VOC	CO				
Emission Factor in lb/MMBtu	0.31	0.31	0.31	0.29	4.41	0.36	0.95				
Potential Emission in tons/yr	0.04	0.04	0.04	0.04	0.55	0.05	0.12				

^{*}PM and PM2.5 emission factors are assumed to be equivalent to PM10 emission factors. No information was given regarding which method was used to determine the factor or the fraction of PM10 which is condensable.

Hazardous Air Pollutants (HAPs)

•													
		Pollutant											
								Total PAH					
	Benzene	Toluene	Xylene	1,3-Butadiene	Formaldehyde	Acetaldehyde	Acrolein	HAPs***					
Emission Factor in lb/MMBtu	9.33E-04	4.09E-04	2.85E-04	3.91E-05	1.18E-03	7.67E-04	9.25E-05	1.68E-04					
Potential Emission in tons/yr	1.17E-04	5.11E-05	3.56E-05	4.89E-06	1.48E-04	9.59E-05	1.16E-05	2.10E-05					

Potential Emission of Total HAPs (tons/yr) 4.84E-04	
---	--

Methodology

Emission Factors are from AP42 (Supplement B 10/96), Tables 3.3-1 and 3.3-2
Potential Throughput (MMBtu/yr) = [Heat Input Capacity (MMBtu/hr)] * [Maximum Hours Operated per Year]
Potential Emission (tons/yr) = [Potential Throughput (MMBtu/yr)] * [Emission Factor (lb/MMBtu)] / [2,000 lb/ton]

Appendix A: Emissions Calculations Natural Gas Combustion Only MM BTU/HR <100 EU-07

Company Name: SCHOTT Gemtron Corporation

Address City IN Zip: 2000 Chestnut Street, Vincennes, Indiana 47591

MSOP: 083-30150-00012

Reviewer: Janet Mobley

Forty-Nine (49) Space Heaters (EU-07)

Heat Input Capacity Potential Throughput

MMBtu/hr MMCF/yr

4.79 40.227

Pollutant

Emission Factor in lb/MMCF	PM* 1.9	PM10* 7.6	SO2 0.6	NOx 100.0	VOC 5.5	CO 84.0
				**see below		
Potential Emission in tons/yr	0.038	0.153	0.012	2.01	0.111	1.69

^{*}PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu
Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).

See next page for HAPs emissions calculations.

^{**}Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Appendix A: Emissions Calculations Natural Gas Combustion Only MM BTU/HR <100

HAPs Emissions

Company Name: SCHOTT Gemtron Corporation

Address City IN Zip: 2000 Chestnut Street, Vincennes, Indiana 47591

MSOP: 083-30150-00012 Reviewer: Janet Mobley

Forty-Nine (49) Space Heaters (EU-07)

HAPs - Organics

Emission Factor in lb/MMcf	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
	0.002	0.001	0.075	1.800	0.003
Potential Emission in tons/yr	0.00004	0.00002	0.0015	0.0362	0.0001

HAPs - Metals

Emission Factor in lb/MMcf	Lead	Cadmium	Chromium	Manganese	Nickel	Total
	0.0005	0.0011	0.0014	0.0004	0.0021	HAPs
Potential Emission in tons/yr	0.00001	0.00002	0.00003	0.00001	0.00004	0.038

Methodology is the same as the previous page.

The five highest organic and metal HAPs emission factors are provided above. Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Appendix A: Welding and Thermal Cutting

Maintenance Welding Operations (EU-08)

Company Name: SCHOTT Gemtron Corporation

Address City IN Zip: 2000 Chestnut Street, Vincennes, Indiana 47591

MSOP: 083-30150-00012 Reviewer: Janet Mobley

PROCESS	Number of Stations	Max. electrode consumption per station		EMIS	SSION FACTORS * (lb pollutant	/ lb electro	de)		EMISSIONS (lb/hr)				
WELDING		(lbs/hr)		PM = PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr		
Submerged Arc Metal Inert Gas (MIG)(ER5154) Stick (E7018 electrode) Tungsten Inert Gas (TIG)(carbon steel) Oxyacetylene(carbon steel)	0 8 4 2 0	0.05 0.2		0.036 0.0241 0.0211 0.0055 0.0055	0.000034		0.00001	0.000 0.010 0.017 0.001 0.000	0 0.0000136 0 0	0.000 0.000 0.000 0.000 0.000	0 0.000004 0 0	0.000 0.000 0.000 0.000 0.000	
	Number of Stations	Max. Metal Thickness Cut	Max. Metal Cutting Rate	EMISSIO	EMISSION FACTORS (lb pollutant/1,000 inches cut, 1" thick)			EMISSIONS (lbs/hr)				TOTAL HAPS (lb/hr)	
FLAME CUTTING		(in.)	(in./minute)	PM = PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr		
Oxyacetylene Oxymethane Plasma	0 0 0	0 0 0	0	0.1622 0.0815	0.0005 0.0002	0.0001	0.0003 0.0002	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	
EMISSION TOTALS								PM = PM10	Mn	Ni	Cr	Total HAPs	
Potential Emissions lbs/hr								0.03	0.00	0.00	0.00	0.00	
Potential Emissions lbs/day								0.66	0.00	0.00	0.00	0.00	
Potential Emissions tons/year								0.121	0.000	0.00	0.00	0.000	

METHODOLOGY

Cutting emissions, lb/hr: (# of stations)(max. metal thickness, in.)(max. cutting rate, in./min.)(60 min./hr.)(emission factor, lb. pollutant/1,000 in. cut, 1" thick)

Emissions, lbs/day = emissions, lbs/hr x 24 hrs/day

Emissions, tons/yr = emissions, lb/hr x 8,760 hrs/day x 1 ton/2,000 lbs.

Plasma cutting emission factors are from the American Welding Society study published in Sweden (March 1994).

Welding and other flame cutting emission factors are from an internal training session document.

See AP-42, Chapter 12.19 for additional emission factors for welding.

^{*}Emission Factors are default values for carbon steel unless a specific electrode type is noted in the Process column. Consult AP-42 or other reference for different electrode types.

Welding emissions, lb/hr: (# of stations)(max. lbs of electrode used/hr/station)(emission factor, lb. pollutant/lb. of electrode used)

Appendix A: Emission Calculations Glass Edge Grinding Operation

Unit EU-10

Company Name: SCHOTT Gemtron Corporation

Address City IN Zip: 2000 Chestnut Street, Vincennes, Indiana 47591

MSOP: 083-30150-00012 Reviewer: Janet Mobley

PM/PM10 Emissions

Unit ID	Control	Grain Loading per Actual	Gas or Air	Emission Rate	Emission Rate	Emission Rate	Emission Rate
	Efficiency (%)	Cubic foot of Outlet Air (grains/cub. ft.)	Flow Rate (acfm.)	before Controls (lb/hr)	before Controls (tons/yr)	after Controls (lb/hr)	after Controls (tons/yr)
EU-10 (Glass Grinding							
Operation)	99.7%	0.00006	1602.0	0.277	1.21	0.001	0.004

Methodology

Emission Rate in lbs/hr (after controls) = (grains/cub. ft.) (sq. ft.) ((cub. ft./min.)/sq. ft.) (60 min/hr) (lb/7000 grains) Emission Rate in tons/yr = (lbs/hr) (8760 hr/yr) (ton/2000 lb)

 $Emission \ Rate \ in \ lbs/hr \ (before \ controls) = Emission \ Rate \ (after \ controls): \ (lbs/hr)/(1-control \ efficiency)$

Emission Rate in tons/yr = (lbs/hr) (8760 hr/yr) (ton/2000 lb)

Appendix A: Emission Calculations HAP Emission Calculations

EU-10

Company Name: SCHOTT Gemtron Corporation
Address City IN Zip: 2000 Chestnut Street, Vincennes, Indiana 47591

MSOP: 083-30150-00012 Reviewer: Janet Mobley

						Cobalt	Manganese	Nickel	Phosphorus	
Material	ntial Grinding Emiss	Weight %	Weight %	Weight %	Weight %	Emissions	Emissions	Emissions	Emissions	
	(tons/yr)	Cobalt	Manganese	Nickel	Phosphorus	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	
Glass Edge Grinding (EU-10)										
Redress Grinder Wheels	1.21	0.60000	0.030	82.00%	0.010	0.726	0.036	99.20%	1.20%	
					Individual Total	0.726	0.036	99.20%	1.20%	Ì
					Overall Total	1.770				Ì
			The Emission	ns Are Solids and There is a 99.7% Cor	ntrol on EU-10					Ì
					Individual Total After Control	0.002	0.0001	0.30%	0.00%	Ì
					Overall Total After Control	0.005				•

METHODOLOGY

HAPS emission rate (tons/yr) =Potential Grinding Emissions (tons/yr) * Weight % HAP

Appendix A: Emissions Calculations VOC Potential Emissions EU-12 CERAN strip wash operation

Company Name: SCHOTT Gemtron Corporation

Address City IN Zip: 2000 Chestnut Street, Vincennes, Indiana 47591

MSOP: 083-30150-00012 Plt ID: Janet Mobley

Material	Maximum Rate (units/hr)	Emission Factor (lb/units)		- ,	Percent of Solvent	Maximum Potential Emissions (tons/yr)
CERAN strip wash operation Solvent Recovery (EU-12)						
Solvent 6-96	60	0.125	7.50	32.85	88%	3.942

Methodology

VOC Emission Rate (lbs/hr)=Maximum Rate (units/hr) * Emission Factor (lb/units)
Recycled By Solvent System(tons/yr)=Emission Rate (lbs/hr) * 8760 hours per year / 2000 pounds per ton
Maximum Potential Emissions(tons/yr)=Recycled By Solvent System (tons/yr) x (1-Percent Solvent Recycled)

*Note: Estimated Solvent Loss Rate From Inventory

Page 17 of 24 TSD App A

Appendix A: Emissions Calculations VOC Potential Emissions

CLEAN UP SOLVENT USED IN EU-18 and equipment cleanup after production

Company Name: SCHOTT Gemtron Corporation

Address City IN Zip: 2000 Chestnut Street, Vincennes, Indiana 47591

MSOP: 083-30150-00012 Reviewer: Janet Mobley

Clean Up Solvents Used (All Solvents 100% VOC)

Material	Maximum Usage(lbs/month)	Maximum Usage (lbs/yr)	Maximum Usage (tons/yr)
EU-18			
Sergussa 80452	48.4	580.8	0.290
Solvent 6-96	154	1848	0.924
Prestoline HG	44.53	534.36	0.267
Total	246.93	2963.16	1.48

Emissions from solvents used to clean the equipment after production:

Sergussa 80452	110	1320	0.66
Miscellaneous Solvent	323	3880	1.94
Total	433.3	5200	2.60

Total Clean Up Solvents Used:

4.08

tons/yr of VOC

Methodology

VOC Emission Rate (lbs/hr)=Maximum Rate (units/hr) * Emission Factor (lb/units)
Recycled By Solvent System(tons/yr)=Emission Rate (lbs/hr) * 8760 hours per year / 2000 pounds per ton
Maximum Potential Emissions(tons/yr)=Recycled By Solvent System (tons/yr) x (1-Percent Solvent Recycled)
*Note: Estimated Solvent Loss Rate From Inventory

Appendix A: State Potential Emissions Calculations Belt Sanders - Part of EU-17 Small Parts Line

Page 18 of 24 TSD App A

Company Name: SCHOTT Gemtron Corporation

Address City IN Zip: 2000 Chestnut Street, Vincennes, Indiana 47591

MSOP: 083-30150-00012 Reviewer: Janet Mobley

Process	Piece Removed	Throughput pieces	throughput in ³	throughput in ³	Spec.		Potential PM/PM10/PM 2.5	Potential PM/PM10/P M2.5
	•••	/111	/111		grav. Glass	103/113	103/11001	toris, year
4 Belt Sanders	0.0283	400	11.32	1728	2.8	62.4	1.14	5.01

Methodology

Source estimates taken from previous renewal 083-22688-00012 issued September 19, 2006.

Potential PM/PM10/PM2.5 lbs/hour = piece removed * pieces per hour = (11.32 in3/hr / in3/ft3) *(spec.grav. Glass*lbs/ft3)

Potential PM/PM10/PM2.5 tons/year = lbs/hr * 24 hrs/day * 365 days/yr) / 2000 lbs/ton

Appendix A: State Potential Emissions Calculations Maintenance Degreaser UNIT EU-19

Company Name: SCHOTT Gemtron Corporation

Address City IN Zip: 2000 Chestnut Street, Vincennes, Indiana 47591

MSOP: 083-30150-00012

Reviewer: Janet Mobley

Maintenance Degreasing

Material	Density (lb/gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Gal of Mat (gal/day)	Potential VOC (lb/day)	Potential VOC (ton/yr)
Safety-Kleen Solvent	7.60	100.00%	0.0%	100.0%	0.1	0.760	0.139

METHODOLOGY

Potential VOC Pounds per Day = Solvent Density (lbs/gallon) * weight % volatiles * solvent consumption (gallons/day)

Potential VOC Tons per Year = Potential VOC Pounds per Day * (365 days/yr) * (1 ton/2000 lbs)

Attachment A: Emissions Calculations

VOC and HAPs

From Transparent Armor Windshield Potting

EU-20

Company Name: SCHOTT Gemtron Corporation

Address City IN Zip: 200 Chestnut Street, Vincennes, IN 47591

Permit Number: 083-30150-00012 Reviewer: Janet Mobley

VOC

Material	Density (Lb/Gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics		Volume % Non- Volatiles (solids)	Gal of Mat. (gal/kit)	Maximum	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC	Potential VOC pounds per day	Potential VOC tons per year	Particulate Potential (ton/yr)	Transfer Efficiency
Sikaflex 296	9.9	5.30%	0.0%	5.3%	0.0%	0.00%	1.43	2.50	0.53	0.53	1.88	45.03	8.22	0.00	100%

Add worst case coating to all solvents

1.88

45.03

8.22

0.00

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)

Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)

Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)

Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)

Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)

Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) * (8760 hrs/yr) * (1 ton/2000 lbs)

HAPs

		Gallons of			Xylene
Material	Density	Material	Maximum	Weight %	Emissions
	(Lb/Gal)	(gal/kit)	(kit/hour)	Xylene	(ton/yr)
Sikaflex 296	9.92	1.43	2.5	5.00%	7.75

METHODOLOGY

HAPS emission rate (tons/yr) = Density (lb/gal) * Gal of Material (gal/unit) * Maximum (unit/hr) * Weight % HAP * 8760 hrs/yr * 1 ton/2000 lbs

Attachment A: Emissions Calculations VOC and HAPs

From Transparent Armor Windshield Potting

EU-21

Company Name: SCHOTT Gemtron Corporation

Address City IN Zip: 200 Chestnut Street, Vincennes, IN 47591

Permit Number: 083-30150-00012 Reviewer: Janet Mobley

voc

Material	Density (Lb/Gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics		Volume % Non- Volatiles (solids)		Maximum	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year	Particulate Potential (ton/yr)	Transfer Efficiency
Sikaflex 296	9.9	5.30%	0.0%	5.3%	0.0%	0.00%	1.43	2.50	0.53	0.53	1.88	45.03	8.22	0.00	100%

Add worst case coating to all solvents

1.88

45.03

8.22

0.00

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)

Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)

Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)

Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)

Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)

Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) *(8760 hrs/yr) *(1 ton/2000 lbs)

HAPs

		Gallons of			Xylene
Material	Density	Material	Maximum	Weight %	Emissions
	(Lb/Gal)	(gal/kit)	(kit/hour)	Xylene	(ton/yr)
Sikaflex 296	9.92	1.43	2.5	5.00%	7.75

METHODOLOGY

HAPS emission rate (tons/yr) = Density (lb/gal) * Gal of Material (gal/unit) * Maximum (unit/hr) * Weight % HAP * 8760 hrs/yr * 1 ton/2000 lbs

Appendix A: Emissions Calculations Natural Gas Combustion Only MM BTU/HR <100

(4) space heaters (SH1)

Company Name: SCHOTT Gemtron Corporation

Address City IN Zip: 2000 Chestnut Street, Vincennes, Indiana 47591

MSOP: 083-30150-00012

Reviewer: Janet Mobley

Four (4) Space Heaters (SH1)

Heat Input Capacity Potential Throughput

MMBtu/hr MMCF/yr

0.45 3.783

Pollutant

Emission Factor in lb/MMCF	PM* 1.9	PM10* 7.6	SO2 0.6	NOx 100.0	VOC 5.5	CO 84.0
				**see below		
Potential Emission in tons/yr	0.004	0.014	0.001	0.19	0.010	0.16

^{*}PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03

(SUPPLEMENT D 3/98)

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).

See next page for HAPs emissions calculations.

^{**}Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Appendix A: Emissions Calculations Natural Gas Combustion Only MM BTU/HR <100

HAPs Emissions

Company Name: SCHOTT Gemtron Corporation

Address City IN Zip: 2000 Chestnut Street, Vincennes, Indiana 47591

MSOP: 083-30150-00012 Reviewer: Janet Mobley

Four (4) Space Heaters (SH1)

HAPs - Organics

Emission Factor in lb/MMcf	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
	0.002	0.001	0.075	1.800	0.003
Potential Emission in tons/yr	0.00000	0.00000	0.0001	0.0034	0.0000

HAPs - Metals

Emission Factor in lb/MMcf	Lead	Cadmium	Chromium	Manganese	Nickel	Total
	0.0005	0.0011	0.0014	0.0004	0.0021	HAPs
Potential Emission in tons/yr	0.00000	0.00000	0.00000	0.00000	0.00000	0.004

Methodology is the same as the previous page.

The five highest organic and metal HAPs emission factors are provided above. Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Appendix A: Potential Emissions Calculations REFRIGERATOR HEAT STAMP MACHINES (HSM)

Page 24 of 24 TSD App A

Company Name: SCHOTT Gemtron Corporation

Address City IN Zip: 2000 Chestnut Street, Vincennes, Indiana 47591

MSOP: 083-30150-00012 Reviewer: Janet Mobley

Material	Density	Weight %	Weight %	Weight %	Gallon of Material	Gal of Mat	Potential VOC	Potential VOC
	(lb/gal)	Volatile	Water	Organics	(gal/hr)	(gal/year)	(lb/year)	(ton/yr)
		(H20 &						
		Organics)						
Ethyl Acetate	7.67	100.00%	0.0%	100.0%	0.0445	110.0	843.700	0.422

Note: Source information used in this calculation submitted for NOC 083-17490-00012 issued August 13, 2003.

METHODOLOGY

Potential VOC Pounds per Day = Solvent Density (lbs/gallon) * weight % volatiles * solvent consumption (gallons/day)

Potential VOC Tons per Year = Potential VOC Pounds per Day * (365 days/yr) * (1 ton/2000 lbs)





We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr. Governor

Thomas W. Easterly Commissioner

100 North Senate Avenue Indianapolis, Indiana 46204 (317) 232-8603 Toll Free (800) 451-6027 www.idem.IN.gov

May 11, 2011

Tyler Davis **SCHOTT Gemtron** PO Box 317 Vincennes IN 47591

> Re: Public Notice SCHOTT Gemtron

> > Permit Level: MSOP Renewal

Permit Number: 083-30150-00012

Dear Mr. Davis:

Enclosed is a copy of your draft MSOP, Technical Support Document, emission calculations, and the Public Notice which will be printed in your local newspaper.

The Office of Air Quality (OAQ) has submitted the draft permit package to the Knox County Public Library, 502 N 7th St in Vincennes IN. As a reminder, you are obligated by 326 IAC 2-1.1-6(c) to place a copy of the complete permit application at this library no later than ten (10) days after submittal of the application or additional information to our department. We highly recommend that even if you have already placed these materials at the library, that you confirm with the library that these materials are available for review and request that the library keep the materials available for review during the entire permitting process.

You will not be responsible for collecting any comments, nor are you responsible for having the notice published in the newspaper. The OAQ has requested that the Sun Commercial in Vincennes IN publish this notice no later than May 12, 2011.

Please review the enclosed documents carefully. This is your opportunity to comment on the draft permit and notify the OAQ of any corrections that are needed before the final decision. Questions or comments about the enclosed documents should be directed to Janet Mobley, Indiana Department of Environmental Management, Office of Air Quality, 100 N. Senate Avenue, Indianapolis, Indiana, 46204 or call (800) 451-6027, and ask for extension 4-5373 or dial (317) 234-5373.

Sincerely,

Patty Pear Permits Branch Office of Air Quality

> **Enclosures** PN Applicant Cover letter. dot 3/27/08



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT



We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr. Governor

Thomas W. Easterly Commissioner

100 North Senate Avenue Indianapolis, Indiana 46204 (317) 232-8603 Toll Free (800) 451-6027 www.idem.IN.gov

ATTENTION: PUBLIC NOTICES, LEGAL ADVERTISING

May 10, 2011

Sun Commercial Attn: Mary PO Box 396 Vincennes IN 47591

Enclosed, please find one Indiana Department of Environmental Management Notice of Public Comment for SCHOTT Gemtron Corp., Knox County, Indiana.

Since our agency must comply with requirements which call for a Notice of Public Comment, we request that you print this notice one time, no later than May 12, 2011.

Please send a notarized form, clippings showing the date of publication, and the billing to the Indiana Department of Environmental Management, Accounting, Room N1345, 100 North Senate Avenue, Indianapolis, Indiana, 46204.

We are required by the Auditor's Office to request that you place the Federal ID Number on all claims. If you have any conflicts, questions, or problems with the publishing of this notice or if you do not receive complete public notice information for this notice, please call Patty Pear at 800-451-6027 and ask for extension 3-6875 or dial 317-233-6875.

Sincerely,

Patty Pear Permit Branch Office of Air Quality

Permit Level: MSOP Renewal Permit Number: 083-30150-00012

> Enclosure PN Newspaper.dot 3/27/08



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT



We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr. Governor

Thomas W. Easterly Commissioner

100 North Senate Avenue Indianapolis, Indiana 46204 (317) 232-8603 Toll Free (800) 451-6027 www.idem.IN.gov

May 11, 2011

To: **Knox County Public Library**

From: Matthew Stuckey, Branch Chief

> Permits Branch Office of Air Quality

Subject: Important Information to Display Regarding a Public Notice for an Air

Permit

Applicant Name: SCHOTT Gemtron Corp

Permit Number: 083-30150-00012

Enclosed is a copy of important information to make available to the public. This proposed project is regarding a source that may have the potential to significantly impact air quality. Librarians are encouraged to educate the public to make them aware of the availability of this information. The following information is enclosed for public reference at your library:

- Notice of a 30-day Period for Public Comment
- Request to publish the Notice of 30-day Period for Public Comment
- **Draft Permit and Technical Support Document**

You will not be responsible for collecting any comments from the citizens. Please refer all questions and request for the copies of any pertinent information to the person named below.

Members of your community could be very concerned in how these projects might affect them and their families. Please make this information readily available until vou receive a copy of the final package.

If you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185. Questions pertaining to the permit itself should be directed to the contact listed on the notice.

> **Enclosures** PN Library.dot 03/27/08



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT



We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr. Governor

Thomas W. Easterly Commissioner

100 North Senate Avenue Indianapolis, Indiana 46204 (317) 232-8603 Toll Free (800) 451-6027 www.idem.IN.gov

Notice of Public Comment

May 11, 2011 **SCHOTT Gemtron Corp** 083-30150-00012

Dear Concerned Citizen(s):

You have been identified as someone who could potentially be affected by this proposed air permit. The Indiana Department of Environmental Management, in our ongoing efforts to better communicate with concerned citizens, invites your comment on the draft permit.

Enclosed is a Notice of Public Comment, which has been placed in the Legal Advertising section of your local newspaper. The application and supporting documentation for this proposed permit have been placed at the library indicated in the Notice. These documents more fully describe the project, the applicable air pollution control requirements and how the applicant will comply with these requirements.

If you would like to comment on this draft permit, please contact the person named in the enclosed Public Notice. Thank you for your interest in the Indiana's Air Permitting Program.

Please Note: If you feel you have received this Notice in error, or would like to be removed from the Air Permits mailing list, please contact Patricia Pear with the Air Permits Administration Section at 1-800-451-6027, ext. 3-6875 or via e-mail at PPEAR@IDEM.IN.GOV. If you have recently moved and this Notice has been forwarded to you, please notify us of your new address and if you wish to remain on the mailing list. Mail that is returned to IDEM by the Post Office with a forwarding address in a different county will be removed from our list unless otherwise requested.

> Enclosure PN AAA Cover.dot 3/27/08



Mail Code 61-53

IDEM Staff	PPEAR 5/11/20	11		
	SCHOTT Gemtro	on Corporation 083-30150-00012 draft	AFFIX STAMP	
Name and		Indiana Department of Environmental	Type of Mail:	HERE IF
address of		Management		USED AS
Sender		Office of Air Quality – Permits Branch	CERTIFICATE OF	CERTIFICATE
		100 N. Senate	MAILING ONLY	OF MAILING
		Indianapolis, IN 46204	MAIENTO SITE!	

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											Remarks
1		Tyler Davis SCHOTT Gemtron Corporation PO Box 317 Vincennes IN 47591 (Source	CAATS)								
2		Jorg Hurtz Business Mgr SCHOTT Gemtron Corporation PO Box 317 Vincennes IN 47591 (RO CAATS)									
3		Mr. Wendell Hibdon Plumbers & Steam Fitters Union, Local 136 2300 St. Joe Industrial Park Dr Evansville IN 47720 (Affected Party)									
4		Knox County Health Department 520 S. 7th Street Vincennes IN 47591-1038 (Hea	lth Departmer	nt)							
5		Knox Co Public Library 502 N 7th St Vincennes IN 47591-2101 (Library)									
6		Knox County Commissioners 111 Washington Ave Vincennes IN 47591 (Local Official)									
7		Vincennes City Council and Mayors Office 203 Vigo Street Vincennes IN 47591 (Local Official)									
8		Mr. John Blair 800 Adams Ave Evansville IN 47713 (Affected Party)									
9		Jennifer Parr Strata Environmental 110 Perimeter Park, Suite E Knoxville TN 37922	(Consultant)								
10											
11											
12											
13											
14											
15											

			The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50,000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See <i>Domestic Mail Manual R900</i> , S913, and S921 for limitations of coverage on inured and COD mail. See <i>International Mail Manual</i> for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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